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Result
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Maximum
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Listing first 45 summaries
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Perfect score:
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     A Geneseq_21:*
1: geneseqp1980s:*
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Gapop 10.0 ,
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Match Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                          DB
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              AAR85166
AAR97333
AAU07452
AAE28561
AAU705017
AAU705017
AAU7070485
AAU704466
AAU7047
ABO10719
ABR44663
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ADH17960
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Aae28561 scFv anti
Aau70517 Mouse hea
Aau70517 Mouse hea
Aau70485 Mouse hea
Aau70476 Mouse hea
Abo10719 Deimmunis
Abr4463 Murine J4
Abo33904 Anti-GPI-
Add75671 Peptide o
Adh17960 Human mod
Adh18011 Human mod
Add90791 Artificial
Addr2645 Mammalian
Addr38796 Mouse hea
Adr38802 Mouse hea
Adr38802 Mouse hea
Adr38799 Mouse hea
Adr38799 Mouse ant
Addw07419 Heavy cha
                                                                                                                                                                                                                                                                     Aar85166 Human ONS
Aar97333 Humanised
Aau07452 Synthetic
                                                                                                                                                                                                                                                                                                                      Description
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CC AAR85163-R85166 are human antibody ONS-M21 heavy CC framework regions (FRs). They were used in the cc CC human/murine chimeric antibody, reactive with hum CC brain tumour) cells. The chimeric antibody can be CC and treatment of this disease XX SQ Sequence 11 AA;	PS Claim 18; Page 102; 120pp; Japanese.	Reconstituted antibody against human medullo high proportion of human antibody origin and	AA DR WPI; 1995-200347/26. XX	PI Ohtomo T, Sato K, Tsuchiya M;	PA (CHUS) CHUGAI SEIYAKU KK.	PR 19-NOV-1993; 93JP-00291078.	PF 19-OCT-1994; 94WO-JP001763.	PD 26-MAY-1995.	PN WO9514041-A1.	OS Homo sapiens.	Human; ONS-M21 antibody; heavy variable region; framework region; FR 4; medulloblastoma; brain t diagnosis.	Human ONS-M21 antibody heavy variable region FR	DT 18-JAN-1996 (first entry)	AC AAR85166;	RESULT 1 AAR85166 D AAR85166 standard; protein; 11 AA. YY		ALIGNMENTS	59 100.0 11 9	59 100.0 11 9	59 100.0 11 9	59 100.0 11 9	59 100.0 II 9	59 100.0 11 9	59 100.0 11 9	59 100.0 11 9	59 100.0 11 9	59 100.0 11 9	32 59 100.0 11 9 ADW07451	59 100.0 11 9	59 100.0 11 9	59 100.0 11 9	59 100.0 11 9 59 100.0 11 9	59 100.0 11 9	
		ullo:blastoma cells - contains and has low antigenicity.									region; chimeric protein; brain tumour; treatment;								Aea45691 Apolipopr	Aea21445 Human ant	Aea21481 Human ant	Adzessas CD3 Const	Adz83542 CD3 const	Adz83544 CD3 const	Adz35850 Anti-gluc	Heavy	Heavy		Heavy		Heavy	Heavy		

Query Match Best Local Similarity

100.0%; Score 59; DB 2; Length 11; ilarity 100.0%; Pred. No. 0.011; Conservative 0; Mismatches 0; Indels

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Gaps

0

Matches

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RESULT 2
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ID AAR9
XX AAR97333
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   RESULT 3
AAU07452
ID AAU0
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Best Local S
Matches 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New humanised anti-CEA monoclonal antibody - having engrafted murine CDRs, used for diagnosis, imaging and therapy of CEA-producing cancers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Humanised monoclonal antibody heavy chain framework region
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Synthetic peptide H-FR4-F8
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                                                               (first entry)
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The invention relates to peptides which are able to confer stability and CC solubility to an antibody comprising these peptides. The peptides are CC especially H-FR1, H-FR2, HF-R3, HFR4, L-FR1, L-FR2, L-FR3 or L-FR4 CC present within a variable region of an antibody which makes the antibody CC soluble and stable in cytoplasm. Peptides having the sequences of HFR1 to CC H-FR4 are present within the variable region of the heavy chain of an CC entibody, covalently linked to the H-CDR1, H-CDR3, H-CDR3 in the order (H-FR1)-(H-CDR1)-(H-CDR2)-(H-CDR3)-(H-CDR3)-(H-CDR4) and peptides CC having the sequences of L-FR1 to L-FR4 are present within the variable cC region of the light chain of an antibody, covalently linked to the L-CC CDR1, L-CDR3, L-CDR3 in the order (L-FR1)-(L-CDR1)-(L-FR2)-(L-CDR2)-(CC L-FR3)-(L-CDR3)-(L-CDR4). The antibodies and polynucleotides are useful CC (e.g. by gene therapy) for the manufacture of a medicament for the CC inside or outside a human, animal cell or plant cell. The pathologies are inside or outside a human, animal cell or plant cell. The pathologies are consisted with accumulation of a molecule consisted with accumulatio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptides which are able to confer stability and solubility to an antibody comprising these peptides, useful for treating pathologies (e.g. tumor) associated with accumulation of a molecule inside or outside a human, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             H-FR4-F8; antimicrobial; antiviral; cytostatic; immunomodulatory; antibody; gene therapy; HIV; human immunodeficiency virus; tumour; metabolic disorder; immune disorder; auto-immune disorder.
                                                      Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 57; 109pp; English.
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N-PSDB; AAS11874.
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Length 11;
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Best Local S
Matches 11
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                                   :n 100.0%;
Similarity 100.0%;
11; Conservative 0
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WGOGTTVTVSS
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                                      Score 59; DB 4;
Pred. No. 0.011;
Mismatches 0;
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RESULT 4
AAE28561
ID AAE2
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AAE28561 standard; peptide; 11

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27-DEC-2002 (first entry

scFv antibody heavy chain frame work region 4 from S18 clone.

Human; sugar-nucleic acid interaction; single chain human antibody; L-peptide binder; D-nucleic acid binder; sugar-protein interaction;

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RESULT 5
AAU70517
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                              enzymatic degradation due to their non-naturally occurring chirality, for blocking or activating the biological function of the naturally occurring sugar or carbohydrate to which they are targeted. The naturally occurring sugars and carbohydrates include bacterial or viral cell surface sugars or carbohydrates, heparin sulphates involved in viral entry, thrombosis and angiogenesis. The method is useful for identifying D-peptides, for studying sugar-protein and sugar-nucleic acid interaction and for designing high-affinity and hydrolase resistant molecules as artificial receptors capable of binding natural carbohydrates. The immobilised enantiomers are useful for screening phage expressing a peptide library on the coat proteins to identify specific clones that bind to an antibody (scFv) heavy chain frame work region 4 (FR4) from S18 clone. This sequence is used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    D-nucleic acid binders that bind to enantiomers of naturally occurring sugar or carbohydrate. The method involves providing enantiomers of naturally occurring sugar or carbohydrate employable for screening the library and then screening the library against the enantiomers for identifying a L-peptide binder or D-nucleic acid binder having binding activity with respect to enantiomers. The method is useful for selecting L-peptide binder or D-nucleic acid binds to enantiomer of naturally occurring sugar or carbohydrate. It is useful for selecting L-peptide binders and/or L-nucleic acid binders that binds to resistant to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Wong
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Fig 6B; 46pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             naturally occurring
Immunoglobulin; antibody; light chain; heavy chain; CC
complementarity determining region; framework region;
                                                    Mouse heavy chain immunoglobulin framework region 4 #11.
                                                                                           14-FEB-2002
                                                                                                                              AAU70517;
                                                                                                                                                              AAU70517 standard; peptide; 11 AA
                                                                                                                                                                                                                                                                                                                                                                                                Sequence 11
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                                                                                                                                                                                                                                                                                        μ
                                                                                                                                                                                                                                                                                                                           l Similarity
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                                                                                                                                                                                                                                                      WGQGTTVTVSS 11
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                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                         (first entry)
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                                                                                                                                                                                                                                                                                                                                          100.0%;
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                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                          Score 59; DB 5;
Pred. No. 0.011;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a novel method of selecting L-peptide to enantiomers of naturally occurring
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                                                                                                                                                                                                                                                                                                                                                           Length 11;
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                    CDR; FR
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RRESULT 6
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                                                                             Immunoglobulin; antibody; light chain; heavy chain; CDR; FR; complementarity determining region; framework region; IgBP; transgenic plant; immunoglobulin binding protein array; IgM; IgG; IgA; IgD; IgE; IgY; IgM; kappa; lambda; CHBP.
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                                                 Mus musculus.
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Pred. No. 0.0
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The invention relates to transforming a population of cells (e.g. plant cells), comprising using a library of two different polynucleotides encoding different immunoglobulin binding protein (IgBP) polypeptides cure that specifically bind to a ligand or form one or more disulphide bonds can ligand, and transformed plant cells are selected, and preparing an IgBP curay in plant cells. At least one peptide sequence has at least 75% cuseful for preparing an immunoglobulin molecule. The method is cuseful for preparing an immunoglobulin binding protein array, preferably heavy chain binding protein (CHBP) array in eukaryotic cells especially cells (e.g. Agrobacterium tumefaciens or maize) or other sukaryotic cells (e.g. Agrobacterium tumefaciens or maize) or other sukaryotic cells (e.g. Agrobacterium cells). The CHBP is useful for cells (e.g. Agrobacterium cells). The CHBP is useful for cells (e.g. servening assays of IgBPs having desired con derived peptide that may be incorporated into an IgBP of the invention con derived peptide that may be incorporated into an IgBP of the invention
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Sequence 11
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WGOGTTVTVSS
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                             Score 59; DB 5;
Pred. No. 0.011;
; Mismatches (
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                                          Length 11
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RESULT 8
AAU70477
ID AAU7
14-FEB-2002 (first entry)
                                                                        AAU70477 standard; peptide; 11 AA
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Mouse heavy chain immunoglobulin framework region 4

Immunoglobulin; antibody; light chain; heavy chain; CDR, FR; complementarity determining region; framework region; IgBP; complement plant; immunoglobulin binding protein array; IgM; IgG; IgA; IgD; IgE; IgY; IgM; kappa; lambda; CHBP.

Mus musculus.

WO200183806-A1

08-NOV-2001.

02-MAY-2001; 2001WO-US014349

02-MAY-2000; 2000US-00563222

EPIC-) EPICYTE PHARM

AC, Hein MB;

WPI; 2002-055482/07.

Preparing immunoglobulin binding protein array in plant cells transforming the cells with different polynucleotides encoding ıg binding

protein polypeptides

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RESULT 9
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20-SEP-2001; 2001US-0323585P.
08-MAR-2002; 2002US-0362810P.
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New modified anti-prostate specific membrane antigen (PSMA) immunoglobulins, useful for treating or preventing a prosta
                                                                                                 WPI; 2003-156839/15
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Pred. No. 0.011;
Mismatches (
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RESULT 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to modified (e.g. deimmunised) antibodies to prostate specific membrane antigen (PSMA). The modified anti-PSMA antibodies are less immunogenic compared to the unmodified anti-PSMA antibodies. The modified antibodies comprise complementarity determining regions (CDRs) from a non-human antibody (e.g. murine antibody J591,J415, U533 or E99), and framework sequences that are less immunogenic in humans (e.g. less antigenic than the murine frameworks in which a murine CDR naturally occurs). The modified antibodies bind with PMSA, preferably human PMSA, with high affinity and specificity. The anti-PMSA antibodies are useful for treating or preventing a prostatic or cancerous disorder, e.g. genicourinary inflammation, prostatic, benign enlargement, prostatic cancer or testicular cancer, or solid tumours, soft tissue tumours or metastatic lesions, and its associated pain. The present sequence represents a deimmunised murine framework region
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse; murine; antibody; skin disorder; binding agent; PSMA; cytostatic; prostate specific membrane antigen; antipsoriatic; antiarthritic; dermatological; antiinflammatory; antiallergic; vaccine; dermal disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 11 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancerous disorder, e.g. genitourinary inflammation, prostatitis, prostatic or testicular cancer.
                             Disclosure;
                                                                          Ablating/killing aberrant prostate specific membrane antigen-expressing cells for treating skin disorders, by contacting the cell with an antibody that binds to the extracellular domain of prostate specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                dermatological; antiinflammatory;
epidermal disorder; psoriasis; in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JUL-2003
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                                                             membrane antigen
                                                                                                                                          WPI; 2003-313319/30
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08-MAR-2002;
                                                                                                                                                                                                                                                                                       30-MAY-2002;
                                                                                                                                                                                                                                                                                                                     27-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                   Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                 neoplastic disorder.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page
                             Page 68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                       2001US-0324100P.
2002US-0362612P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antibody VH FR4 amino acid sequence SEQ
                            225pp; English
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  epidermis; dermis;
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The present invention describes a method (M1) for ablating or killing an

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RESULT 11
ABO33904
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; anti-glucose-6-phosphate isomerase-antibody; immunopolypanti-GPI-antibody; GPI; glucose-6-phosphate isomerase; autoimmune disease; rheumatoid arthritis; heavy chain variable VH; framework region.
                                                                                      WPI; 2003-521517/49.
                                                                                                                                                                                               (DITZ/)
(BURT/)
(SCHA/)
                                                                                                                                                                                                                                                                                                                06-APR-2001; 2001US-00828708
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                                                                                                                                           Ditzel H,
                            Immunopolypeptide for
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                                                                                                                                                                                               DITZEL H.
) BURTON D
) SCHALLER
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                                                                                                                                           Burton DR,
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  c diagnosis rheumatoid
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Pred. No. 0.011;
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  and treatment of human arthritis, comprises a
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autoimmune
polypeptide
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RESULT 12
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Best Local S
Matches 11
molecules, and functional fragments thereof, which have specificity for the numan interleukin-9 (IL-9). Specifically, it refers to recombinant human interleukin-9 (IL-9). Specifically, it refers to recombinant antibodies derived from several mouse anti-IL-9 monoclonal antibodies namely MH9A3, MH9D1 and MH9D1. The present invention describes using humanised and chimeric antibody molecules to treat, prevent and/or ameliorate disorders including bronchial hyperresponsiveness, asthma, atopic allergy, mucin overproduction, chronic obstructive pulmonary disorder.
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                                                                                                                                                                                                                                                                                                                            New antibody or antibody fragment that specifically binds to IL-9, useful for preparing a composition for preventing or treating e.g., atopic allergy, asthma, mucin overproduction, chronic obstructive pulmonary disorder or cystic fibrosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             binds to
                                                                                                                                                                                          This invention molecules, and
                                                                                                                                                                                                                                                                      Disclosure; SEQ ID NO 135; 206pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-845267/78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MEDI-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Peptide of the human heavy
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12-APR-2002;
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11; Conservative
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2002US-0371728P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INST
                                                                                                                                                                                                                         relates to novel humanised and chimeric antibody
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Pred. No. 0.0
9; Mismatches
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of the invention demonstrates cytostatic, osteopathic, antiatherosclerotic, antipsoriatic, vasotropic and antidiarrhoeal activities and may be useful for preventing or treating a medical condition selected from acromegaly, bladder cancer, Wilm's cancer, ovarian cancer, pancreatic cancer, benign prostatic hyperplasia, breast cancer, prostate cancer, bone cancer, lung cancer, colorectal cancer, cervical cancer, synovial sarcoma, diarrhoea associated with carcinoid syndrome, vasoactive intestinal peptide secreting tumours, gigantism, psoriasis, atherosclerosis, smooth muscle restenosis of blood vessels a
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02-JUL-2002;
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                                                                                                                                                                                                                                                                                                                                                                    binding composition that specifically binds to insulin-like growth tor receptor 1, useful for treating or preventing a medical condition is mediated by elevated expression or activity of IGFR1.
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Pred. No. 0.011;
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The invention relates to a novel binding composition that specifically binds to insulin-like growth factor receptor 1 (IGFR1). The composition of the invention demonstrates cytostatic, osteopathic, antiatherosclerotic, antipsoriatic, vasotropic and antidiarrhoeal activities and may be useful for preventing or treating a medical condition selected from acromegaly, bladder cancer, Wilm's cancer, ovarian cancer, pancreatic cancer, benign prostatic hyperplasia, breast cancer, prostate cancer, bone cancer, lung cancer colorectal cancer, cervical cancer, synovial sarcoma, diarrhoea associated with carcinoid syndrome, vasoactive intestinal peptide secreting tumours, gigantism, psoriasis, atherosclerosis, smooth muscle restenosis of blood vessels a
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                                                                                                                                                                 Query Match
Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method of treating or preventing an insulin-
related disorder in a subject which comprises administering an antibody
or its antigen-binding portion specific for prostate specific membrane
antigen (PSMA). The method is useful for treating an insulin-related
disorder, including obesity, hyperglycaemia, hypoglycaemia,
hyperinaulinaemia, insulin-resistance, impaired glucose tolerance,
impaired fasting glucose, Type 1 diabetes mellitus, Type 2 diabetes
mellitus, and gestational diabetes. The present sequence represents an
artificially deimmunised framework sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inappropriate microvascular proliferation. The composition may also have gene therapy applications. The current sequence is that of the human 15H12/19D12 heavy chain B (HCB) framework region peptide of the
                                                                                                                                                                                                                                                                                                                                       Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 40; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Use of anti-prostate specific membrane antigen antibodies for treating preventing insulin-related disorders, e.g. obesity, hyperglycemia, hyperglycemia, hypermia, insulin-resistance, or Type 1 or 2 diabetes mellitus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-533338/51.
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Description
heavy chain
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PH1655 Ig heavy chain V region (clone 2B8) - human (fragment) C;Species: Homo sapiens (man) C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 16-A: C;Accession: PH1655 R;Hillson, J.L.; Karr, N.S.; Oppliger, I.R.; Mannik, M.; Sasso, E.H. J. Exp. Med. 178, 331-336, 1993 A;Title: The structural basis of germline-encoded VH3 immunoglobulin A;Feference number: PH1642; MUID:93301610; PMID:8315388 A;Accession: PH1655 A;Molecule type: mRNA A;Residues: 1-110 <hil- <imm="" a;cross-references:="" a;experimental="" b="" c;keywords:="" c;superfamily:="" cell="" domain:="" f;7-90="" heterotetramer;="" homology="" immunoglobulin="" region;="" source:="" uniparc:upi0000176bdc="" v=""> Cuery Match Best Local Similarity 100.0%; Score 59; DB 2; Length 110; Best Local Similarity 100.0%; Pred. No. 0.0032; Matches 11; Conservative 0; Mismatches 0; Indels 0;</hil->	RESULT 1 \$26793 Ig heavy chain V region - human C; Species: Homo sapiens (man) C; Date: 13-Jan-1995 #text_change 2 C; Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 2 C; Caccession: \$26793 R; Mortari, F.; Newton, J.A.; Wang, J.Y.; Schroeder Jr., H.W. Eur. J. Immunol. 22, 241-245, 1992 A; Title: The human cord blood antibody repertoire. Frequent usage A; Reference number: \$26786; MUID:92111632; PMID:1730251 A; Accession: \$26793 A; Accession: \$26793 A; Status: preliminary A; Molecule type: mRNA A; Molecule type: mRNA A; Cross-references: UNIPARC:UPI0000115FCA; EMBL:X61019; NID:g3278 C; Superfamily: immunoglobulin V region; immunoglobulin homology C; Keywords: heterotetramer; immunoglobulin Query Match Best Local Similarity 100.0%; Score 59; DB 2; Length 74; Best Local Similarity 100.0%; Pred. No. 0.0021; Matches 11; Conservative 0; Mismatches 0; Indels Qy 1 wGQGTTVTVSS 11 Db 64 WGQGTTVTVSS 74	30 59 100.0 122 2 E36005 Ig hee 31 59 100.0 122 2 PH0958 Ig hee 32 59 100.0 123 2 S26794 Ig hee 33 59 100.0 124 2 S26794 Ig hee 34 59 100.0 125 2 S37455 Ig mu 35 59 100.0 125 2 S34686 Ig hee 36 59 100.0 125 2 S24686 Ig hee 37 59 100.0 127 2 S24689 Ig hee 38 59 100.0 127 2 S24689 Ig hee 39 59 100.0 128 2 S48797 Ig hee 40 59 100.0 131 2 S26537 Ig hee 41 59 100.0 132 2 PH0954 Ig hee 42 59 100.0 133 2 C33548 Ig hee 43 59 100.0 135 2 B32274 Ig hee 44 59 100.0 136 2 PH0960 Ig hee 45 59 100.0 136 2 PH0960 Ig hee 46 59 100.0 137 2 S31676 Ig hee 47 59 100.0 136 2 PH0960 Ig hee
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Aug-1996 1. n binding	Jun-2000 E the V(H)7 gen PIDN:CAA43353.	th very continuous con
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RESULT 4
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c;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #rext_change
C;Accession: S55535
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A;Reference number: S55528; MUID:95239763; PMID:7536850
A;Accession: S55533
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R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce,
J. Mol. Biol. 247, 932-946, 1995
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C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
                                                                                                                             Ig heavy chain V region pel7 - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change
C;Accession: S55530
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R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
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                    A,Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies utations in the variable region genes.
A;Reference number: S55528; MUID:95239763; PMID:7536850
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A; Residues: 1-113 <BOE>
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A; Accession:
                                                                                   C;Accession: S55530
R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce,
J. Mol. Biol. 247, 932-946, 1995
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Pred. No. 0.0033;
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Pred. No. 0.0033;
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A;Status: preliminary
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-113 <BOS>
A;Cross-references: UNIPARC:UPI00001161FD; EMBL:X82586; NID:g854296; PIDN:CAA57922.1;
A;Cross-references: UNIPARC:UPI00001161FD; immunoglobulin homology
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;14-97/Domain: immunoglobulin homology <IMM>
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R;Boettger, V.; Boettger, A.
J. Mol. Biol. 247, 932-946,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ig heavy chain V region (pe16/pe14) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
C;Accession: S55529
C;Accession: S55529
R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
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C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change
                                                                      A;Cross-references: UNIPARC:UPI00001161FB; EMBL:X82583; NID:g854290; PIDN:CAA57919.1; C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin F;14-97/Domain: immunoglobulin homology <IMM>
                                                                                                                                                                                                                                                                                                                                                                                                                    A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies using utations in the variable region genes.
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A;Molecule type: mRNA
A;Residues: 1-113 <BOE>
                                                                                                                                                                        A; Molecule type: mRNA
A; Residues: 1-113 <BO2>
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A; Residues: 1-113 <BOE>
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A; Accession: S55528
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100.0%;
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C;Keywords: necc
F;14-97/Domain:
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(;Species: Mus musculus (house mouse)
(;Date: 27-Oct-195 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
(;Accession: $55531
R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies usin utations in the variable region genes.
Ig heavy chain V region (VH-28) - human C;Species: Homo sapiens (man) C;Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change C;Accession: S46392 R;Figini, M.; Marks, J.D.; Winter, G.; Griffiths, A.D. J. Mol. Biol. 239, 68-78, 1994
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C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
C;Accession: S55532
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R;Boettger, V.; Boettger, A.; Lane,
J. Mol. Biol. 247, 932-946, 1995
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A; Residues: 1-113 < BOE>
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A; Residues: 1-113 <BOE>
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Pred. No. 0.0033;
Mismatches 0
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Pred. No. 0.0033;
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WGQGTTVTVSS

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A;Molecule type: DNA
A;Residues: 1-114 <FIG>
A;Residues: 1-114 <FIG>
A;Cross-references: UNIPARC:UPI00001137D6; EMBL:Z31688; NID:g499306;
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology <IMM>
                                                                                                                                  A;Cross-references: UNIPROT:Q8R3V9; UNIPARC:UPI0000176C45; EMBL:Z11914 C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin F:12-97/Domain: immunoglobulin homology <
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A;Molecule type: DNA
A;Residues: 1-115 <BRE>
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A;Accession: S20707
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C;Species: Mus musculus (house mouse)
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000
C;Accession: S20707
R;Brennand, D.M.; Hinds, M.G.; Welsh, J.H.; Tempest, P.R.; Harris, W.J.; Carr, submitted to the EMBL Data Library, April 1992
submitted to the EMBL Data Library, April 1992
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A; Residues: 1-114 <B
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Score 59; DB 2;
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105

WGQGTTVTVSS

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RESULT 15

SS5541

Ig heavy chain V region pel - mouse (fragment)

C; Species: Mus musculus (house mouse)

C; Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 23-Jul-1999

C; Accession: S55541

C; Accession: S55541

R; Boettger, V; Boettger, A.; Lane, E.B.; Spruce, B.A.

J. Mol. Biol. 247, 932-946, 1995

J. Mol. Biol. 247, 932-946, 1995
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S55542
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A;Molecule type: mRNA
A;Residues: 1-116 <BOE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies usin utations in the variable region genes.
A;Reference number: S55528; MUID:95239763; PMID:7536850
A;Accession: S55542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ig heavy chain V region pe2 - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 23-Jul-1999
C;Accession: 855542
R;Boettger, V: Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
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A;Reference number: S15672; MUID:91337412; PMID:1367535
A;Accession: S15672
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C;Species: Mus musculus (house mouse)
C;Date: 18-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C;Accession: S15672
R;Tempest, P.R.; Bremner, P.; Lambert, M.; Taylor, G.; Furze, J.M.; Carr, F.J.;
R;Tempest, P.R.; Bremner, P.; Lambert, M.; Taylor, G.; Furze, J.M.; Carr, F.J.;
                         A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies usin utations in the variable region genes.
A;Reference number: 855528; MUID:95239763; PMID:7536850
A;Accession: §55541
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A; Residues: 1-116 < TEM>
A;Status:
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Pred. No. 0.0033;
Mismatches 0
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Pred. No. 0.0033;
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A; Molecule type: mRNA
A; Residues: 1-117 <BCS;
A; Cross-references: UNIPARC: UPI00001161F8; EMBL: X82580; NID: g854286; PIDN: CAA57916.1;
A; Cross-references: UNIPARC: UPI00001161F8; EMBL: X82580; NID: g854286; PIDN: CAA57916.1;
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 14-97/Domain: immunoglobulin homology < IMM>
Search completed: December 4, Job time: 15.5833 secs
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                                                                                                                                                                                    Matches
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Best Local
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                                                                                          107 WGQGTTVTVSS 117
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11; Conserv
                                                                                                                                    1 WGQGTTVTVSS 11
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59 100.0 11 6 US-10-839-799-114 59 100.0 11 6 US-10-839-799-129 100.0 11 7 US-11-040-159-7 59 100.0 20 7 US-11-054-669-107 59 100.0 116 7 US-11-174-186-20 59 100.0 116 7 US-11-174-186-21 59 100.0 116 7 US-11-174-186-23 59 100.0 116 7 US-11-174-186-25 59 100.0 116 7 US-11-174-186-25 59 100.0 116 7 US-11-174-186-25 59 100.0 116 7 US-11-194-186-25 59 100.0 117 6 US-10-39-799-132 59 100.0 118 7 US-11-054-669-120 59 100.0 118 7 US-11-054-669-120 59 100.0 120 6 US-10-932-334-71 59 100.0 120 7 US-11-0932-334-71 59 100.0 124 7 US-11-096-074-2 59 100.0 124 7 US-11-096-074-2 59 100.0 124 7 US-11-040-159-6 59 100.0 124 7 US-11-040-159-6 59 100.0 125 7 US-11-040-159-8 59 100.0 126 7 US-11-040-159-8	SUMMARIES Result Query No. Score Match Length DB ID Description	Database: Published Applications AA_New:* 1: /cgn2 6/ptodata/1/pubpaa/US09_NEW_PUB.pep:* 2: /cgn2 6/ptodata/1/pubpaa/US09_NEW_PUB.pep:* 3: /cgn2-6/ptodata/1/pubpaa/US08_NEW_PUB.pep:* 4: /cgn2-6/ptodata/1/pubpaa/US08_NEW_PUB.pep:* 5: /cgn2-6/ptodata/1/pubpaa/US08_NEW_PUB.pep:* 6: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 7: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 8: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 9: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 1: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 9: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 1: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 1: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 1: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 1: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:* 1: /cgn2-6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*	Minimum DB seq length: 0 Maximum DB seq length: 2000000000 Maximum DB seq length: 2000000000 Post-processing: Minimum Match 10% Maximum Match 100% Listing first 45 summaries	Searcned: 26661 Total number of hits satisfying chosen parameters: 26661	cable: BLOSUM62 Gapop 10.0 , Gapext	Title: US-10-632-706-198 Perfect score: 59 Sequence: 1 MGQGTTVTVSS 11	Run on: December 4, 2005, 04:08:08; Search time 3.20833 Seconds (without alignments) 16.417 Million cell updates/sec	Copyright (c) 1993 - 2005 Compugen Ltd. OM protein - protein search, using sw model
CURRENT APPLICATION N APPLICATION N FILING DATE: CLASSIFICATION N FILING DATE: CLASSIFICATION N PRIOR APPLICATION N PRILING DATE: APPLICATION N FILING DATE: ATTORNEY/AGENT IN NAME: WEGNER. REGISTRATION REFERENCE/DOO TELEFONMUNICATION TELEFAX: (20) TELEFAX: (20) TELEFAX: (20) TELEFAX: (21)	COMPUTER READABLE COMPUTER IBN COMPUTER: IBN COMPUTER: IBN COMPUTER: COMPUTER: IBN COMPUTER: COM	HUDICACION NO. USZOUSUZA GENERAL INFORMATION: APPLICANT: OHTOMO, SATO, K TSUCHHY TITLE OF INVENTION NUMBER OF SEQUENCE CORRESPONDENCE ADD ADDRESSES: FC STREET: 3000 CITY: Washing COUNTRY: USA ZIP: 20007-51	RESULT 1 US-10-839-799-114 ; Sequence 114, Application	100.0	59 100.0 59 100.0	5 5 5 5 5 5 6 6 6 6	59 100.0 59 100.0 59 100.0	28 59 100.0 1 29 59 100.0 1 30 59 100.0 1 31 59 100.0 1 32 59 100.0 1

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248	247	244	243	243	240	240	237	237	174	154	145	143	143	143	143	143	138	136	125
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US-11-054-515-1008	US-11-054-515-1434	US-11-054-515-2058	US-11-054-515-1945	US-11-054-515-1927	US-11-054-515-2113	US-11-054-515-2105	US-11-054-515-2104	US-10-073-301A-9	US-11-144-248-4	US-10-721-763-25	-10-72	US-11-096-074-18	3-11-09	US-11-096-074-12	US-11-096-074-10	US-11-096-074-6	US-10-789-273-4	US-10-839-799-99	US-11-084-554-8
Sequence 1008, Ap	Sequence 1434, Ap	Sequence 2058, Ap	•	Sequence 1927, Ap	•	Sequence 2105, Ap	Sequence 2104, Ap	Sequence 9, Appli	Sequence 4, Appli	Sequence 25, Appl	Sequence 29, Appl	Sequence 18, Appl	Sequence 16, Appl	Sequence 12, Appl	Sequence 10, Appl	Sequence 6, Appli	Sequence 4, Appli	Sequence 99, Appl	Sequence 8, Appli

ALIGNMENTS

07-5109 ABLE FORM: ABLE FORM: YPE: Floppy disk I IBM PC compatible G SYSTEM: PC-DOS/MS-DOS PATENION DATA: ION NUMBER: US/10/839,799 ATE: 06-May-2004 CATION: «Unknown» ION NUMBER: US/08/646,265 ATE: 09-SEP-1996 ION NUMBER: WO PCT/JP94/01763 ATE: 19-NOV-1993 ION NUMBER: JP 5-291078 ATE: 19-NOV-1993 ION NUMBER: JP 5-291078 ATE: 19-NOV-1993 ATE: TOMO, Toshihiko YO, Koh TCHIYA, Masayuki TION: RESHAPED HUMAN ANTIBODY TO HUMAN MEDULLOBLASTOMA CELLS BENCES: 132 S ADDRESS: S ADDRESS: S POLey & Lardner 1000 K Street, N.W., Suite 500 Bington ID NO: 114: TERISTICS: amino acids o acid linear protein on US/10839799 249726A1

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RESULT 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 129, Application US/10839799 Publication No. US20050249726A1 GENERAL INFORMATION:
                                                                                                              Matches
                                                                                                                                             Query Match
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INFORMATION FOR SEQ ID NO: 129:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, \
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/839,799
FILING DATE: 06-May-2004
CLASSIFICATION: dnknown>
                                                                                                                                                                                        MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 129:
                                                                                                                                                                                                            TOPOLOGY: linear MOLECULE TYPE: peptid
                                                                                                                                                                                                                                                                                                                                                      NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53.
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SATO, KON
TSUCHIVA, Masayuki
TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
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                                                                                                                             Similarity
                                                                             WGQGTTVTVSS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/646,265
FILING DATE: 09-SEP-1996
APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-OCT-1994
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
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                                                                                                                                                                                                                                            TYPE: amino acid
                                                                                                                                                                                                                                                                                                                        TELEFAX: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Washington
                                               WGQGTTVTVSS 11
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                                                                                                                                                                                                                                                          LENGTH: 11 amino acids
                                                                                                              Conservative
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Pred. No.
                                                                                                                          Score 59; DB 6;
Pred. No. 0.0001
                                                                                                             Mismatches
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                                                                                                                                                                SOFTWARE: PatentIn Ver. SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 7
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Query Match
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                                                                                                                                                                                                     TITLE OF INVENTION: Antibody Specificity Transfer Using Minimal Essential TITLE OF INVENTION: Binding Determinants FILE REFERENCE: 021167-001730US CURRENT APPLICATION NUMBER: US/11/040,159 CURRENT FILING DATE: 2005-01-20 PRIOR APPLICATION NUMBER: US 60/537,364 PRIOR APPLICATION NUMBER: US 60/537,364 PRIOR FILING DATE: 2004-01-20 PRIOR APPLICATION NUMBER: US 60/546,216 PRIOR FILING DATE: 2004-02-23 NUMBER: OF SEQ ID NOS: 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: US 60/582,044
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/582,045
PRIOR FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/654,713
PRIOR FILING DATE: 2005-02-18
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CURRENT APPLICATION NUMBER: U$/11/108,135
CURRENT FILING DATE: 2005-04-15
PRIOR APPLICATION NUMBER: U$ 60/562,804
PRIOR FILING DATE: 2004-04-16
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TITLE OF INVENTION: Fc-gamma-RIIB-specific antibodies and methods of use thersof
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                                         FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:JH6
                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                             TYPE: PRT
                                                                                                 ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Framework sequence from human germline VH1-18 and JH6 -
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                                                                                                                                               LENGTH:
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Local Similarity 100.0%;
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Balint, Robert F.
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Bonvini, Ezio
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Bebbington, Christopher R.
Yarranton, Geoffrey T.
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100.0%;
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Pred. No. 0.0001;
Score 59;
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RESULT 5
US-11-054-669-107
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; ORGANISM: Homo sapiens
US-11-054-669-107
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Publication No. US20050261480A1
GENERAL INFORMATION:
APPLICANT: Foote, Jefferson
TITLE OF INVENTION: SUPER HUMANIZED ANTIBODIES
FILE REFERENCE: 30219/US/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: PatentIn version 3.3 SEQ ID NO 107
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NUMBER OF SEQ ID NOS: 60
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 20
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Best Local Similarity
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PRIOR FILING DATE: 2002-07-12
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 124
                                                                                                                                                                                                                                                                                  APPLICANT: Corvalan, Jose R.
APPLICANT: Gallo, Michael
TITLE OF INVENTION: ANTIBODIES TO INSULIN-LIKE GROWTH FACTOR I RECEPTOR
FILE REFERENCE: ABX-PF2
CURRENT APPLICATION NUMBER: US/11/144,248
CURRENT FILLING DATE: 2005-66-02
PRIOR APPLICATION NUMBER: US/10/038,591
PRIOR APPLICATION NUMBER: US/10/038,591
PRIOR APPLICATION NUMBER: 60/259,927
PRIOR APPLICATION NUMBER: 60/259,927
                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Cohen, Bruce D.
APPLICANT: Beebe, Jean
APPLICANT: Miller, Penelope E.
APPLICANT: Moyer, James D.
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CURRENT FILING DATE: 2005-02-08
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                                                                                                                                                           TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                   LENGTH: 113
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103 WGQGTTVTVSS 113
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1 Similarity 100.0%;
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                                                                    100.0%; Score 59; DB 7; ilarity 100.0%; Pred. No. 0.00086; Conservative 0; Mismatches 0;
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Pred. No. 0.00018;
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                                                                                                        Length 113;
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US-11-174-186-21
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APPLICANT: Lo, Kin-Ming
APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
SOCTWARE: PatentIn version 3.3
SEQ ID NO 21
LENGTH: 116
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Best Local Similarity
Matches 11; Conserv
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                                                                              Query Match
Best Local Similarity 100.0%;
                                                                          Matches
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CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR PILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
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OTHER INFORMATION: KS VH veneered
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ORGANISM: Artificial
                                                                                                                                                          FEATURE:
OTHER INFORMATION: KS de-immunized VH1
                                                                                                                                                                                                       ORGANISM: Artificial
                                                                                                                                                                                                                            TYPE: PRT
106 WGQGTTVTVSS 116
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                                     1 WGQGTTVTVSS 11
                                                                          Conservative
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Pred. No. 0.00088;
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                                                                                                             DB 7; Length 116;
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RESULT 9
US-11-174-186-22
; Sequence 22, Application US/11174186
; Publication No. US20050244418A1
; GENERAL INFORMATION:

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RESULT 11

US-11-174-186-24

i Sequence 24, Application US/11174186

; Publication No. US20050244418A1

; GENERAL INFORMATION:

APPLICANT: Gillies, Stephen

; APPLICANT: Lo, Kin-Ming

; APPLICANT: Qian, Xiugi

; TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof

; FILE REFERENCE: LEX-019

; CURRENT APPLICATION NUMBER: US/11/174,186
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
APPLICANT: Qian, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCS: LEX-019
FULLERIOR INVENTION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 23, Application US/11174186 Publication No. US20050244418A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn version 3.3
SEQ ID NO 23
LENGTH: 116
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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APPLICANT: Qian, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR PILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Gillies, Stephen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
ORGANISM: Artificial
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: KS de-immunized VH3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                          106
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l Similarity 100.0%;
ll; Conservative 0
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                                                                                                                                                                                                                                                                                                                                                                                                    11; Conservative
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Pred. No. 0.00088;
; Mismatches 0;
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Pred. No. 0.00088;
; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
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US-10-839-799-132
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US-11-174-186-25
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US-11-174-186-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Gillies, Stephen
APPLICANT: Lo, Kin-Ming
APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
TITLB OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR PILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
SOFTWARE: Patentin version 3.3
SEQ ID NO 25
                                                                                                                                                                                                                                                      Sequence 132, Applicat Publication No. US2005 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 11; Conserva
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SEQ ID NO 24
LENGTH: 116
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 11; Conservative C
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PRIOR FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Artificial
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 116
                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W
COMPUTER READABLE FORM:
                                                                                                                                              MEDULLOBLASTOMA NUMBER OF SEQUENCES: 132
                                                                                                                                                                          TSUCHIYA, MASAYUKI
TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN
                                                                                                                                                                                                                    APPLICANT: OHTOMO, Toshihiko SATO, Koh
                                                                                                                                                                                                                                                                                                                                                                                      106 WGQGTTVTVSS 116
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                                                   CITY: Washington STATE: D.C.
                 COUNTRY: USA
ZIP: 20007-5109
                                                                                                                                                                                                                                                                         Application US/10839799
5. US20050249726A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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Pred. No. 0.00088;
); Mismatches 0;
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compati

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APPLICATION NUMBER: US 10/194,975
PRIOR APPLICATION NUMBER: US 10/194,669
CURRENT APPLICATION NUMBER: US 10/194,669
CURRENT FILING DATE: 2005-02-08
PRIOR APPLICATION NUMBER: US 10/194,975
PRIOR FILING DATE: 2002-07-12
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR APPLICATION NUMBER: US 60/305,111
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; SEQUENCE DESCRIPTION: SEQ ID NO: 132:
US-10-839-799-132
밁
                             5
                                                                                                                                          SOFTWARE: PatentIn version 3.3
SEQ ID NO 120
LENGTH: 117
TYPE: PRT
ORGANISM: Homo sapiens
US-11-054-669-120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 14
US-11-054-669-120
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 120, Application US/11054669
Publication No. US20050261480A1
GENERAL INFORMATION:
                                                                    Query Match
Best Local Similarity
Matches 11; Conserv
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Best Local Similarity
                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX: 904136
INFORMATION FOR SEQ ID NO: 132:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-0CT-1994
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              107 WGQGTTVTVSS 117
107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11; Conservative
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                                 1 WGQGTTVTVSS 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/10/839,799 FILING DATE: 06-May-2004
WGQGTTVTVSS 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53466/184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
                                                                    Conservative
                                                                                     100.0%; Score 59; DB 7; 100.0%; Pred. No. 0.00089;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 59; DB 6; Length 117; 100.0%; Pred. No. 0.00089;
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                                                                                                       Length 117;
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RESULT 15

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SEQ ID NO 75
LENGTH: 118
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: INFORMATION: synthetic antibody structure
US-10-932-334-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-932-334-75
; Sequence 75, Application US/10932334
; Publication No. US20050249728A1
; GENERAL INFORMATION:
Search completed: December 4, 2005, 04:37:50 Tob time: 3.20833 secs
                                                                                       밁
                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: ImmunoGen, Inc.
TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
FILE REFERENCE: A8689
FULRENT APPLICATION NUMBER: US/10/932,334
CURRENT FILING DATE: 2004-09-02
PRIOR APPLICATION NUMBER: US/10/729,441
PRIOR FILING DATE: 2003-12-08
PRIOR APPLICATION NUMBER: 10/170,390
PRIOR APPLICATION NUMBER: 10/170,390
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 96
                                                                                                                                                                             Matches
                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                       108 WGQGTTVTVSS 118
                                                                                                                                                                           11; Conservative
                                                                                                                                  1 WGQGTTVTVSS 11
                                                                                                                                                                             100.0%; Score 59; DB 6; 1 100.0%; Pred. No. 0.0009; tive 0; Mismatches 0;
                                                                                                                                                                                                                      DB 6; Length 118;
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Sequence Sequence Sequence

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8, Appli 4, Appli 6, Appli 12, Appli 12, Appli 16, Appli 16, Appli 25, Appli 25, Appli 29, Appli 2104, Appli 2105, Appli 2105, Appli 2105, Appli 2105, Appli 2105, Appli

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No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                             Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           seq length: 0
seq length: 2000000000
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1: /cgn2 6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

3: /cgn2 6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
 US-10-632-706-198
59
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16.417 Million cell updates/sec
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                           US-10-839-799-114
US-10-839-799-129
US-11-108-135-7
US-11-1040-159-4
US-11-1044-248-20
US-11-1144-248-20
US-11-1174-186-21
US-11-1174-186-22
US-11-1174-186-23
US-11-1174-186-23
US-11-1174-186-23
US-11-1174-186-24
US-11-104-186-24
US-11-1054-669-132
US-10-932-334-75
US-11-012-353-71
US-10-932-334-71
US-10-932-334-71
US-11-096-074-2
US-11-108-135-24
US-11-108-135-24
US-11-040-159-8
US-11-040-159-8
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           Sequence 114, App
Sequence 7, Appli
Sequence 20, Appli
Sequence 21, Appli
Sequence 21, Appli
Sequence 22, Appli
Sequence 23, Appli
Sequence 24, Appli
Sequence 24, Appli
Sequence 25, Appli
Sequence 13, Appli
Sequence 13, Appli
Sequence 17, Appli
Sequence 71, Appli
Sequence 71, Appli
Sequence 71, Appli
Sequence 71, Appli
Sequence 24, Appli
Sequence 24, Appli
Sequence 34, Appli
Sequence 37, Appli
Sequence 37, Appli
Sequence 38, Appli
Sequence 39, Appli
Sequence 39, Appli
Sequence 31, Appli
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Sequence
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US-10-839-799-114

Sequence 114, Application US/10839799

Publication No. US20050249726A1

GENERAL INFORMATION:
APPLICANT: OHTOMO, Toshihiko
SATO, Koh
Magayuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEX: 904136
INFORMATION FOR SEQ ID NO: 114:
                                                                                                                                                                                                        COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/839,799
FILING DATE: 06-May-2004
CLASSIFICATION DATA:
APPLICATION NUMBER: US/08/646,265
APPLICATION NUMBER: US/08/646,265
FILING DATE: 09-SEP-1996
APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-OCT-1994
APPLICATION NUMBER: DS-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: WEGNER HATCH'S COMPANION:
NAME: WEGNER HATCH'S COMPANION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 132
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite
                                                                                                                            NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (20)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: protein
                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: D.C.
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 3000 K St
CITY: Washington
                 TYPE: amino acid
TOPOLOGY: linear
                                                                                                                  TELEFAX: (202)672-5399
                                                 LENGTH: 11 amino acids
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US-10-783-799-99
US-10-789-273-4
US-11-096-074-10
US-11-096-074-12
US-11-096-074-18
US-11-096-074-18
US-11-096-074-18
US-11-096-074-18
US-11-096-074-19
US-10-721-763-25
US-11-144-248-4
US-11-054-515-2104
US-11-054-515-2104
US-11-054-515-1927
US-11-054-515-1948
US-11-054-515-1948
US-11-054-515-1948
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                                                                                                                                                Query Match
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INFORMATION FOR SEQ ID NO: 129:
SEQUENCE CHARACTERISTICS:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/646,265
FILING DATE: 09-SEP-1996
APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-OCT-1994
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                              NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53466/184
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT
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ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN MEDULLOBLASTOMA CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: OHTOMO,
                                                                                                                                                                                              MOLECULE TYPE: peptide SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11;
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                                                                                1 WGQGTTVTVSS 11
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                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/10/839,799
FILING DATE: 06-May-2004
CLASSIFICATION: Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WGOGTTVTVSS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
INT APPLICATION DATA:
                                                                                                                                                                                                                                                TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Washington
                                                 WGQGTTVTVSS 11
                                                                                                                                                                                                                             TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                               TELEFAX: (202)672-5399
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o. US20050249726A1
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ilarity 100.0%;
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Pred. No.
                                                                                                                                Score 59; DB 6; Length 11; Pred. No. 0.0001;
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Query Match
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RESULT 3

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Score 59;

BB 7;

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; OTHER INFORMATION: Framework sequence from human germline VH1-18 and JH6 - US-11-108-135-7
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SOFTWARE: FastSEQ for
SEQ ID NO 7
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                                                                                                                                              SOFTWARE: PatentIn Ver.
SEQ ID NO 4
LENGTH: 20
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Publication No. US2005025552A1
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: US 60/582,044
PRIOR FILLING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US 60/582,045
PRIOR FILING DATE: 2004-06-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 11183-014-999
CURRENT APPLICATION NUMBER: U$/11/108,135
CURRENT FILING DATE: 2005-04-15
PRIOR APPLICATION NUMBER: U$ 60/562,804
PRIOR FILING DATE: 2004-04-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Koenig, Scott
APPLICANT: Veri, Maria
APPLICANT: Tuaillon, Na
APPLICANT: Bonvini, Ezi
                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Antibody Specificity Transfer Using Minimal Essential TITLE OF INVENTION: Binding Determinants FILE REFERENCE: 021167-001730US CURRENT APPLICATION NUMBER: US/11/040,159 CURRENT FILING DATE: 2005-01-20 PRIOR APPLICATION NUMBER: US 60/537,364 PRIOR FILING DATE: 2004-01-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/654,713 PRIOR FILING DATE: 2005-02-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Stavenhagen, Jeffrey
APPLICANT: Rankin, Christopher
TITLE OF INVENTION: Fc-gamma-RIIB-specific antibodies and methods of use thersof
                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 60/546,216
PRIOR FILING DATE: 2004-02-23
NUMBER OF SEQ ID NOS: 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Flynn, Peter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens FEATURE:
                                                            FEATURE: OTHER INFORMATION: Description of Artificial Sequence: JH6
                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ENGTH:
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Bonvini, Ezio
                                                                                                                                                                                                                                                                                                                                                                                                                               Bebbington, Christopher R. Yarranton, Geoffrey T. KaloBios, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Luehrsen, Kenneth
Balint, Robert F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Her, Jeng-Horng
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Pred. No. 0.0001;
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Length 20;
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CURRENT APPLICATION NUMBER: US/11/054,669
CURRENT FILING DATE: 2005-02-08
PRIOR APPLICATION NUMBER: US 10/194,975
PRIOR FILING DATE: 2002-07-12
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 124
SOFTWARE: Patentin version 3.3
SEQ ID NO 107
LENGTH: 20
TYDE: PRT
ORGANISM: Homo sapiens
US-11-054-669-107
                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: US/10/038,591
PRIOR PRILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: US/10/038,591
PRIOR APPLICATION NUMBER: 60/259,927
PRIOR FILING DATE: 2001-01-05
NUMBER OF SEQ ID NOS: 60
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 20
1.ENDERT: 100 NUMBER: 2001-01-05
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                                                                                                                                                     ; LENGTH: 113
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-144-248-20
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GENERAL INFORMATION:
APPLICANT: Foote, Jefferson
TITLE OF INVENTION: SUPER HUMANIZED ANTIBODIES
FILE REFERENCE: 30219/US/3
                                                                                             Query Match
Best Local S
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                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/11/144,248
CURRENT FILING DATE: 2005-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Corvalan, Jose R.
APPLICANT: Gallo, Michael
TITLE OF INVENTION: ANTIBODIES TO INSULIN-LIKE GROWTH FACTOR I RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: ABX-PF2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
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                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
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   WGOGTTVTVSS 113
                           WGQGTTVTVSS 11
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Miller, Penelope E.
Moyer, James D.
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                                                                         Score 59; DB 7;
Pred. No. 0.00086;
Mismatches 0;
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RESULT 9
US-11-174-186-22
; Sequence 22, Application US/11174186
; Publication No. US20050244418A1
; GENERAL INFORMATION:
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US-11-174-186-20
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US-11-174-186-21
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APPLICANT: Cillies, Stephen
APPLICANT: Cio, Kin-Ming
APPLICANT: Oin, Xiugi
APPLICANT: Oin, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
SOFTWARE: Patentin version 3.3
SEQ ID NO 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21, Application US/11174186 Publication No. US20050244418A1
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Best Local Similarity
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APPLICANT: Lo, Kin-Ming
APPLICANT: Lo, Kin-Ming
APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR PILING DATE: 2001-05-03
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                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial
FEATURE:
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                                                                                                                                     106 WGQGTTVTVSS
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                                                                                                                                                           WGQGTTVTVSS 11
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100.0%; Pred. No. 0.00088;
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Pred. No. 0.00088;
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Length 116; Indels

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Length 116;

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US-11-174-186-24
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APPLICANT: Lo, Kin-Ming
APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
TITLB OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT APPLICATION NUMBER: US 60/288,564
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
SOFTWARE: Patentin version 3.3
SEQ ID NO 22
LENGTH: 116
Sequence 24, Application US/11174186
Publication No. US.20050244418A1
GENERAL INFORMATION:
APPLICANT: Gillies, Stephen
APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Gillies, Stephen
APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR FILING DATE: 2001-05-03
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Publication No.
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Best Local Similarity
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Best Local
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TYPE: PRT
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Pred. No. 0.00088;
Mismatches 0;
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Pred. No.
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PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 42
SOFTWARE: Patentin version 3.3
SEQ ID NO 24
LENGTH: 116
TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 12
US-11-174-186-25
US-11-174-186-25, Application US/11174186
Sequence 25, Application US/11174186
Publication No. US20050244418A1
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                                                                                                                                                                                                                                Sequence 132, Application US/10839799 Publication No. US20050249726A1 GENERAL INFORMATION:
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SEQ ID NO 25
LENGTH: 116
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Best Local Similarity
Matches 11; Conserv
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APPLICANT: Lo, Kin-Ming
APPLICANT: Qian, Xiugi
TITLE OF INVENTION: Recombinant Tumor Specific Antibody And Use Thereof
FILE REFERENCE: LEX-019
FILE REFERENCE: LEX-019
CURRENT APPLICATION NUMBER: US/11/174,186
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US 60/288,564
PRIOR PILING DATE: 2001-05-03
                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
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                                                                                                                    ZIP: 20007-5109
COMPUTER READABLE FORM:
                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                 106 WGQGTTVTVSS 116
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                                COUNTRY: USA
                                              CITY: Washington STATE: D.C.
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Pred. No. 0.00088;
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Pred. No. 0.00088;
; Mismatches 0;
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                                                                                  Suite 500
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatil

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RESULT 14
US-11-054-669-120
US-11-054-669-120
; Sequence 120, Applicat
; Sequence 100, No. US2005
; Publication No. US2005
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: POOLE, Jefferson
TITLE OF INVENTION: SUPER HUMANIZED ANTIBODIES
FILE REFERENCE: 30219/US/3
CURRENT APPLICATION NUMBER: US/11/054,669
CURRENT FILING DATE: 2005-02-08
PRIOR APPLICATION NUMBER: US 10/194,975
PRIOR FILING DATE: 2002-07-12
PRIOR APPLICATION NUMBER: US 60/305,111
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TYPE: amino acids
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 132:
US-10-839-799-132
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                                                                                                                                                                                                                                                                                                                               ; ORGANISM: Homo sapiens US-11-054-669-120
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Best Local Similarity
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                                                                                                                                                               Matches
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INFORMATION FOR SEQ ID NO: 132:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/646,265
FILING DATE: 09-SEP-1996
APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-OCT-1994
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53466/184
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/839,799
FILING DATE: 06-May-2004
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
107 WGQGTTVTVSS 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   107 WGQGTTVTVSS 117
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o. US20050261480A1
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RESULT 15

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                                                                                                                                                                                                                                                    ; FEATURE: ; OTHER INFORMATION: synthetic antibody structure US-10-932-334-75
Search completed: December 4,
Job time : 3.20833 secs
                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/10/932,334
CURRENT FILING DATE: 2004-09-02
PRIOR APPLICATION NUMBER: US/10/729,441
PRIOR FILING DATE: 2003-12-08
PRIOR APPLICATION NUMBER: 10/170,390
PRIOR APPLICATION NUMBER: 10/170,390
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 96
SOPTWARE: PatentIn version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-932-334-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION: APPLICANT: ImmunoGe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 75, Application US/10932334
Publication No. US20050249728A1
                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 75
                                                                                                                                                                   Matches
                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: ANTI-IGF-I RECEPTOR ANTIBODY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: A8689
                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                           LENGTH: 118
                                                                                                                                                                                     Local Similarity
                                                                                  108 WGÓGTTVTVSS 118
                                                                                                                        1 WGQGTTVTVSS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ImmunoGen,
                                                                                                                                                                   Conservative
                                                                                                                                                                                     100.0%; Score 59; DB 6; Length 118; 100.0%; Pred. No. 0.0009;
                   2005, 04:37:50
                                                                                                                                                                   0,
                                                                                                                                                                   Mismatches
                                                                                                                                                                   Indels
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Minimum
Maximum
                                                                                                                                Database :
                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
                                                                                                                                                                                                                                                                                                                                                                   Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                          DB seq length: 0
DB seq length: 2000000000
        554321
                                                                                                                                                                                                                                                                                                                                                              1867569 segs, 417829326 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                  BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                          Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-632-706-198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   December
Published Applications AA Main:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep:*
                                                                                                                                                                       Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WGQGTTVTVSS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4, 2005, 04:07:28 ; Search time 78.8333 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (without alignments)
58.302 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result		Query					
No.	Score	Match	Length	ВВ	ID	Description	
۳	59		11	ω	US-09-253-794-40	- 1	
N	59	100.0	11	w	-09-828-708-	equence	
ω	59	•	11	ω	-09-749-873-	equence 114	
4	59		11	ω	-09-749-873-12	e 129	
ហ	59		11	w	-09-269-921-13	e 137	
6	59		11	w	-09-563-222-	equence 157	
7	59	100.0	11	ω	2-16	e 16	
8	59	٠	11	w	63-222-	e 181	
9	59	٠	11	w	63-222-19	e 190	
10	59	100.0	11	w	09-098-17	179	
11	59		11	4	-10-218-253-	13,	
12	59		11	4	69-351-	4	
13	59		11	4	60-506-	e 40,	
14	59		11	4	10-113-	e 26,	
15	59	•	11	4	0-310-113-	14.	
16	59		11	4.	-113-14	e 148	
17	59	•	11	4.	-113-	149	
18	59		11	4	-310-113-15	15(
19	59		11	4.	-113-15	e 15:	
20	59		11	4	-10-310-113-	e 15	
21	59	8	11	4	0-310-113-15	15	
22	59		11	4	0-310-113-15		
23	59		11	4.	-10-310-113-15	155,	
24	59		11	4.	0-310-113-15	O	
25	59	80.	11	4.	-10-310-113-	157,	
26	59		11	4.	US-10-310-113-158	158,	
27	59	100.0	11	4	-10-310-113-	159,	

59 100.0 11 4 US-10-443 466A-69 59 100.0 11 4 US-10-443-466A-120 59 100.0 11 4 US-10-648-015-40 59 100.0 11 4 US-10-688-015-40 59 100.0 11 4 US-10-632-706-195 59 100.0 11 4 US-10-632-706-201 14 US-10-632-706-201 15 100.0 11 4 US-10-632-706-201 16 100.0 11 4 US-10-632-706-201 17 100.0 18 105-10-783-950-146 18 105-10-783-950-146 19 100.0 11 1 US-10-783-950-146 19 100.0 11 5 US-10-783-950-140 19 100.0 11 5 US-10-923-068-413 19 100.0 11 5 US-10-923-068-40 10 US-10-948-960A-95 10 US-10-984-960A-45	100.0 11 4 US-10-443 100.0 11 4 US-10-443 100.0 11 4 US-10-449 100.0 11 4 US-10-632 100.0 11 4 US-10-632 100.0 11 4 US-10-632 100.0 11 4 US-10-632 100.0 11 4 US-10-793 100.0 11 4 US-10-793 100.0 11 4 US-10-793 100.0 11 5 US-10-923 100.0 11 5 US-10-923 100.0 11 5 US-10-923 100.0 11 5 US-10-934	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	
11 4 US-10-443 11 4 US-10-443 11 4 US-10-449 11 4 US-10-632 11 4 US-10-632 11 4 US-10-632 11 4 US-10-632 11 4 US-10-783 11 4 US-10-783 11 5 US-10-783 11 5 US-10-923 11 5 US-10-923 11 5 US-10-923 11 5 US-10-929	11 4 US-10-443-466A-69 11 4 US-10-443-466A-120 11 4 US-10-449-379-40 11 4 US-10-688-015-40 11 4 US-10-688-015-40 11 4 US-10-632-706-198 11 4 US-10-632-706-201 11 4 US-10-632-706-201 11 4 US-10-632-706-201 11 4 US-10-783-950-146 11 4 US-10-783-950-149 11 4 US-10-783-950-149 11 5 US-10-160-505-40 11 5 US-10-160-505-40 11 5 US-10-160-505-40 11 5 US-10-160-505-40 11 5 US-10-630-009-78 11 5 US-10-630-009-78 11 5 US-10-984-960A-45	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	•
4 US-10-443 4 US-10-443 4 US-10-449 4 US-10-632 4 US-10-632 4 US-10-632 4 US-10-632 4 US-10-783 4 US-10-783 5 US-10-783 5 US-10-923 5 US-10-925 5 US-10-929 5 US-10-929 5 US-10-929 5 US-10-984	4 US-10-443 466A-69 4 US-10-449 3-466A-120 4 US-10-449-37-40 4 US-10-68B-015-40 4 US-10-68B-015-40 5 US-10-632-706-198 6 US-10-632-706-201 7 US-10-783-950-169 7 US-10-783-950A-9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1000
US-10-443 US-10-443 US-10-688 US-10-632 US-10-632 US-10-632 US-10-783 US-10-783 US-10-783 US-10-783 US-10-783 US-10-783	US-10-443-466A-69 US-10-443-466A-120 US-10-443-466A-120 US-10-643-706-195 US-10-632-706-198 US-10-632-706-204 US-10-632-706-204 US-10-632-706-204 US-10-632-706-204 US-10-783-950-146 US-10-783-950-146 US-10-783-950-189 US-10-160-505-40 US-10-791-826-120 US-10-791-826-120 US-10-791-826-120 US-10-984-960A-45	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	1
US-10-443-466A-69 US-10-443-466A-120 US-10-443-79-40 US-10-688-015-40 US-10-688-015-40 US-10-632-706-195 US-10-632-706-201 US-10-632-706-201 US-10-632-706-204 US-10-783-950-146 US-10-783-950-146 US-10-783-950-149 US-10-160-505-40 US-10-783-950-149 US-10-783-950-149 US-10-984-960A-45	0.1	ຫ	ഗ	ហ	ຫ	σ	v	4	4	4	4	4	4.	4	4.	4	4	4	•
	Sequence	US-10-984-960A-45	US-10-984-960A-9	US-10-755-382-40	US-10-630-009-78	US-10-923-068-413	US-10-751-826-120	US-10-160-505-40	US-10-783-950-169	US-10-783-950-146	US-10-632-706-204	-10 - 632	-706-19	US-10-632-706-195	US-10-688-015-40	US-10-449-379-40	US-10-443-466A-120	-443	
69 Appl 120 App 40 Appl 40 Appl 195 App 201 App		Appl	φli	pp1	Appl	App	App	Appl	App	ggA	App	App	App	App	App1	pp.	App	App1	'n

ALIGNMENTS

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RESULT 1

US-09-253-794-40

US-09-253-794-40
; Sequence 40, Application US/09253794
; Patent No. US20020018750A1
; GENERAL INFORMATION:
 APPLICANT: HANSEN, Hans J.
 APPLICANT: HANSEN, Kathryn L.
 ARMOUR, Kathryn L.
 MOUSE MONOCLONAL ANTIBODIES
                                                                                           TOPOLOGY: linear

MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO:
US-09-253-794-40
Query Match 100.0%; Score 59; DB 3; Length 11; Best Local Similarity 100.0%; Pred. No. 0.01; Matches 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                  TELEX: 904136
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC COMPACTION
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/253,794
FILING DATE: 22-Feb-199
CLASSIFICATION NUMBER: US/09/253,794
PRIOR APPLICATION NUMBER: US/08/318,157
FILING DATE: 05-OCT-1994
ATTORNEY,AGENT INFORMATION:
NAME: SAXE, Bernhard D.
REGISTRATION NUMBER: 28,665
REGISTRATION INFORMATION:
TELEPHONE: (202)672-5399
TELEPHONE: (202)672-5399
TELEPHONE: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
                                                                                                                                                                                                          TYPE: amino acid
STRANDEDNESS: <Unknown>
                                                                                                                                                                                                                                                             LENGTH: 11 amino acids
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0

Gaps

0;

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RESULT 3
US-09-749-873-114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-828-708-78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-828-708-78
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 78
LENGTH: 11
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Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 100
Best Local Similarity 100
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Autoantibodies to glucose-6-phosphate isomerase and their partici
TITLE OF INVENTION: autoimmune disease
FILE REFERENCE: 1361.005US1
CURRENT APPLICATION NUMBER: US/09/828,708
CURRENT FILING DATE: 2001-09-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Ditzel, H.
APPLICANT: Burton, D.
APPLICANT: Schaller, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                   APPLICATION NUMBER: 08/646,265
FILING DATE: 1996-09-09
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                 SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/749,873
FILING DATE: 29-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TSUCHIYA, MASAYUKI
TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN
MEDULLOBLASTOMA CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: OHTOMO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   78,
US2002
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION:
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               NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53466/184
                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 20007-5109
                                                                                                                                                                                                                                                                                                                                                                                                         STATE: D.C
                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Washington
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320020146753A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/09749873 o. US20030023045A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; S
100.0%; P
mtive 0;
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Pred. No. 0.01;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                           Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 3; Length 11;
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TYPE: amino acid;
TOPOLOGY: linear;
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 114:
US-09-749-873-114
                                                                         TOPOLOGY: linear

MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO:
US-09-749-873-129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 129, Applicat Publication No. US2003 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Best Local Similarity Matches 11; Conserva
                                        Query Match
                                                                                                                                                                                                        TELEX: 904136
INFORMATION FOR SEQ ID NO: 129:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEX: 904136
INFORMATION FOR SEQ ID NO: 114:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/749,873
FILING DATE: 29-Dec-2000
CLASSIFICATION : UNknown>
PRIOR APPLICATION NUMBER: US/646,265
FILING DATE: 1996-09-09
APPLICATION NUMBER: US/646,265
FILING DATE: 1996-09-09
APPLICATION NUMBER: DS-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAMME: WRGURE: HAPOI'd C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICAMA. SATO, KOH
TSUCHIYA, Masayuki
TSUCHIYA, Masayuki
TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN
MEDULLOBLASTOMA CELLS
                                                                                                                                                                                                                                                                                                             NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53466/184
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: OHTOMO, Toshihiko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 100.0%;
l Similarity 100.0%;
ll; Conservative 0
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                                                                                                                                                                   LENGTH: 11 amino acids TYPE: amino acid
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TELEPAX: (202)672-5399
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TELEFAX: (202)672-5399
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Application US/09749873
o. US20030023045A1
100.0%; Score 59; DB 3; Length 11; ilarity 100.0%; Pred. No. 0.01; Conservative 0; Mismatches 0; Indels
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RESULT 5 US-09-269-921-137

Sequence 137, A Publication No.

Application US/09269921 o. US20030045691A1 밁

WGQGTTVTVSS 11

WGQGTTVTVSS 11

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RESULT 6
US-09-563-222-157
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LENGTH: 11
TYPE: PRT
GRGANISM: Unknown
                                                                                                                                                                                                                                                                                                                               Sequence 157, Application US/09563222
Publication No. US20030079253A1
GENERAL INFORMATION:
APPLICANT: Hiatt, Andrew
APPLICANT: Hein, Mich B.
                                                                                                                                                              FILE REFERENCE: 310098.406
CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 197
SOPTWARE: FREUSEQ for Windows Version 4.0
SEQ ID NO 157
Query Match 100.0%; Score 59; DB 3; Length 11; Best Local Similarity 100.0%; Pred. No. 0.01; Matches 11; Conservative 0; Mismatches 0; Indels
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                                                                                 LENGTH: 11
TYPE: PRT
ORGANISM: Mus musculus
-09-563-222-157
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APPLICANT: Yoshimura, Yasushi
APPLICANT: Koishimura, Yasushi
APPLICANT: Koishihara, Yasushi
APPLICANT: Koishihara, Yasuo
TITLE OF INVENTION: RESHAPED HUWAN ANTI-HM 1.24 ANTIBODY
FILE REFERENCE: 35029-20007.00
CURRENT APPLICATION NUMBER: US/09/269,921
CURRENT FILING DATE: 1999-04-01
EARLIER APPLICATION NUMBER: PCT/JP97/03553
EARLIER FILING DATE: 1997-10-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EARLIER APPLICATION NUMBER: JP 8-264756
EARLIER FILING DATE: 1996-10-04
NUMBER OF SEQ ID NOS: 137
SOFTWARE: Patentin Ver. 2.0
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                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN TITLE OF INVENTION: EUKARYOTIC CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Desc
PUBLICATION INFORMATION:
AUTHORS: Ravetch, J. et
JOURNAL: CELL
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APPLICANT: Ohtomo, Toshihiko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VOLUME: 27
PAGES: 583-591
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Pred. No. 0.01;
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US-09-563-222-165; Sequence 165, Application US/09563222; Publication No. US20030079253A1
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US-09-563-222-197
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US-09-563-222-181
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             Sequence 197, Application US/09563222

Publication No. US20030079253A1

GENERAL INFORMATION:
APPLICANT: Hist, Andrew
APPLICANT: Hein, Mich B.
TITLE OF INVENTION: INVUNCOLOBULIN BINDING PROTEIN ARRAYS IN
TITLE OF INVENTION: EUKARYOTIC CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS
TITLE OF INVENTION: EUKARYOTIC CELLS
FILE REFERENCE: 310098 4.06
CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 197
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 181, Application US/09563222
Publication No. US20030079253A1
GENERAL INFORMATION:
APPLICANT: Hiatt, Andrew
APPLICANT: Hein, Mich B.
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CURRENT FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 197
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
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APPLICANT: Hein, Mich Mich Mich Binding PROTEIN ARRAYS IN TITLE OF INVENTION: EUKARYOTIC CELLS
FILE REFERENCE: 31098.406
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TYPE: PRT
FILE REFERENCE:
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TYPE: PRT
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Local Similarity 100.0%;
les 11; Conservative
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Local Similarity 100.0%;
es 11; Conservative 0
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310098.406
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Pred. No. 0.01;
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Pred. No. 0.01;
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CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 197
SOFTWARE: FRSUSEQ for Windows Version 4.0
SEQ ID NO 197
LENGTH: 11
TYPE: PRT
ORGANISM: Mus musculus
US-09-563-222-197
APPLICANT: TSUCHIYA, MASSAYIKI
APPLICANT: YOSHIMUZA, YASUSHI
APPLICANT: KOISHIMUZA, YASUSHI
APPLICANT: KOISHIMUZA, YASUSHI
TITLE OF INVENTION: RESHAPED HUMAN ANTI-HM 1.24 ANTIBODY
FILE REFERENCE: 35029-20007.00
CURRENT APPLICATION NUMBER: US/10/218,253
CURRENT FILING DATE: 2002-11-21
PRIOR APPLICATION NUMBER: US/09/269,921
PRIOR APPLICATION NUMBER: US/09/269,921
PRIOR FILING DATE: 1999-04-01
PRIOR PILING DATE: 1999-04-03
PRIOR PILING DATE: 1997-10-03
PRIOR APPLICATION NUMBER: DF 8-264756
PRIOR APPLICATION NUMBER: JP 8-264756
PRIOR FILING DATE: 1996-10-04
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Sequence 137, Application US/10218253
Publication No. US20030129185A1
GENERAL INFORMATION:
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CURRENT FILING DATE: 2000-03-22
PRIOR APPLICATION NUMBER: PCT/JP98/04469
PRIOR FILING DATE: 1998-10-02
PRIOR APPLICATION NUMBER: JP 9-271726
PRIOR APPLICATION NUMBER: JP 9-271726
PRIOR FILING DATE: 1997-10-03
NUMBER OF SEQ ID NOS: 203
SOFTWARE: Patentin Ver. 2.1
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Best Local Similarity 100.0%;
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TITLE OF INVENTION: NATURAL HUMANIZED ANTIBODY
FILE REFERENCE: 053466/0274
                                                                                                                                                                                                                                                                                         APPLICANT: Ono, Koichiro
APPLICANT: Ohtomo, Toshi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH: 11
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Pred. No. 0.01;
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US-10-160-506-40
Sequence 40, Application US/10160506
; Publication No. US20030161832A1
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US-10-169-351-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: TAVILADORAKI, PARASKEVI
TITLE OF INVENTION: STABILIZING PEPTIDES, POLYPEPTIDES AND ANTIBODIES
TITLE OF INVENTION: WHICH INCLUDE THEM
FILE REFERENCE: 4161-4
CURRENT APPLICATION NUMBER: US/10/169,351
CURRENT FILING DATE: 2002-10-29
PRIOR APPLICATION NUMBER: PCT/IT00/00554
PRIOR APPLICATION NUMBER: PCT/IT00/00554
PRIOR APPLICATION NUMBER: IT RM99A000803
PRIOR APPLICATION NUMBER: IT RM99A000803
PRIOR FILING DATE: 1999-12-30
NUMBER OF SEQ ID NOS: 118
SOPTWARE: Patentin Ver: 2.1
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: BENVENTO, EUGENIO
APPLICANT: FRANCONI, ROSELLA
APPLICANT: DESIDERIO, ANGIOLA
APPLICANT: TAVLADORAKI, PARAS
                GENERAL INFORMATION:

APPLICANT: Bander, Neil H.

APPLICANT: BANDER, Neil H.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING OR PREVENTING
TITLE OF INVENTION: SKIN DISORDERS USING BINDING AGENTS SPECIFIC FOR
TITLE OF INVENTION: PROSTATE SPECIFIC MEMBRANE ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 137
SOFTWARE: PatentIn Ver. 2.
SEQ ID NO 137
LENGTH: 11
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PUBLICATION INFORMATION: AUTHORS: Ravetch, J. et
FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAGES: 583-591
DATE: 1981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL: CH
VOLUME: 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Unknown FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
Local Similarity 100.0%;
es 11; Conservation
                                                                                                                                                                                                                                                                                                                    11;
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DESIDERIO, ANGIOLA
                                                                                                                                                                                                                                                                                                                  100.0%;
ilarity 100.0%;
Conservative C
  10448-162001
                                                                                                                                                                                                                                                                                                                                                                                                                Description of Artificial Sequence: Synthetic peptide
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                                                                                                                                                                                                                                                                                                                Score 59; DB 4; Length 11;
Pred. No. 0.01;
; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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CURRENT APPLICATION NUMBER: US/10/160,506
CURRENT FILING DATE: 2002-05-30

PRIOR APPLICATION NUMBER: 60/ PRIOR FILING DATE: 2001-09-20

60/324,100

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APPLICANT: MILYOSO, MUSTERMAN, ANTI-TISSUE FACTOR ANTIBODIES FOR TITLE OF INVENTION: USE OF ANTI-TISSUE FACTOR ANTIBODIES FOR FILTE OF INVENTION: USE OF ANTI-TISSUE FACTOR ANTIBODIES FOR FILTE OF INVENTION: USE OF ANTI-TISSUE FACTOR ANTIBODIES FOR FILTE OF INVENTION: THROMBOSES
FILE REFERENCE: 58122(71758)
CURRENT FILING DATE: 2002-12-04
PRIOR APPLICATION NUMBER: 09/990,586
PRIOR FILING DATE: 2001-11-21
PRIOR APPLICATION NUMBER: 60/343,306
PRIOR FILING DATE: 2001-10-29
PRIOR FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: 09/293,854
PRIOR APPLICATION NUMBER: 09/293,854
PRIOR APPLICATION NUMBER: 09/293,854
PRIOR FILING DATE: 1999-04-16
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 169
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/362,612
PRIOR FILING DATE: 2002-03-08
NUMBER OF SEQ ID NOS: 128
SOFTWARE: FASESEQ for Windows Version 4.0
SEQ ID NO 40
LENGTH: 11
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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                                                                                                                                                                                            RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Homo sapiens
US-10-310-113-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-310-113-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: deimmunized heavy chain J415-4
US-10-160-506-40
                                                                                                                                                                   US-10-310-113-147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 14
Sequence 147, Application US/10310113
Publication No. US20030176664A1
GENERAL INFORMATION:
APPLICANT: JIAO, JIN-AN
APPLICANT: WONG, HING C.
APPLICANT: NIEVES, ESPERANZA LILIANA
APPLICANT: MOSQUERA, LUIS A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 26, Application US/10310113
Publication No. US20030176664A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 59; DB 4; Length 11; Best Local Similarity 100.0%; Pred. No. 0.01;
                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: JIAO, JIN-AN
APPLICANT: WONG, HING C.
APPLICANT: NIEVES, ESPERNZA LILIANA
APPLICANT: MOSQUERA, LUIS A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
                                                                                                                                                                                                                                                        1 WGQGTTVTVSS 11
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1 WGQGTTVTVSS 11
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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic ; OTHER INFORMATION: humanized HC-01 FR4 amino acid sequence US-10-310-113-147
Search completed: December 4, 2005, 04:37:44
Job time : 79.8333 secs
                                                                                                    밁
                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 58122 (1758)
CURRENT APPLICATION NUMBER: US/10/310,113
CURRENT APPLICATION NUMBER: US/10/310,113
CURRENT APPLICATION NUMBER: 09/990,586
PRIOR APPLICATION NUMBER: 09/990,586
PRIOR FILING DATE: 2001-11-21
PRIOR APPLICATION NUMBER: 60/343,306
PRIOR FILING DATE: 2001-10-29
PRIOR PILING DATE: 1997-04-16
PRIOR APPLICATION NUMBER: 09/293,854
PRIOR APPLICATION NUMBER: 08/814,806
PRIOR APPLICATION NUMBER: 08/814,806
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 169
COUNTAINE: DATE: 1997-03-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 147
                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: USE OF ANTI-TISSUE FACTOR ANTIBODIES FOR TREATING TITLE OF INVENTION: THROMBOSES
                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 11
                                                                                                                                                                                               11;
                                                                                                                                WGQGTTVTVSS 11
                                                                                                                                                                                          100.0%; Score 59; DB 4 ilarity 100.0%; Pred. No. 0.01; Conservative 0; Mismatches
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0;

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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

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OM protein - protein search, using sw model

Run on:

December 4, 2005, 03:59:51; Search time 23.6042 Seconds
(without alignments)
38.528 Million cell updates/sec

Title:
US-10-632-706-198
Perfect score:
59
Sequence:
1 WGQGTTVTVSS 11

Scoring table:
BLOSUM62
Gapop 10.0, Gapext 0.5

Searched:
572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters:
572060
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%
Listing first 45 summaries

Database:
1 Issued Patents AA:*
1 /cgn2-6/ptodata/1/iaa/5 COMB.pep:*
2 /cgn2-6/ptodata/1/iaa/FCOMB.pep:*
5 /cgn2-6/ptodata/1/iaa/BCOMB.pep:*
6 /cgn2-6/ptodata/1/iaa/BCOMB.pep:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. 1 1	Score 59	~ ~ : - : - : - : - : - :	· · · i -	DB		Description Sequence 1 Sequence 1
ωı	59		11	- -	-08-471-282A-	Sequence
4.	59	٠	H	μ	-08-318-157B-	Sequence
ហ	59	٠	11	μ,	-08-466-710C-	Sequence
o,	59	100.0	11	N	-08-468-739C-12	Sequence
7	59	•	11	N	-08-646-265A-11	Sequence
89	59	•	11	N	-08-646-265A-	Sequence
9	59	•	11	N	-09-253-794-4	Sequence
10	59	100.0	11	N	-09-563	æ
11	59	100.0	11	N	US-09-563-222C-169	Sequence 169,
12	59	•	11	N	-09-269-921-1	æ
13	59	100.0	11	N	US-09-293-769A-120	
14	59	100.0	13	σ	5189147-14	Patent No.
15	59	100.0	15	μ	US-08-765-179B-8	Sequence
16	59	100.0	15	σ	5189147-20	Patent No.
17	59		16	4	PCT-US91-02942-91	Seguence
18	59	100.0	20	Ŋ	-10	Sequence
19	59	100.0	22	4	PCT-US91-02942-100	
20	59	100.0	29	۳	US-08-053-131-73	Sequence
21	59	100.0	29	۳	US-08-645-641-73	
22	59	100.0	29	μ	US-07-853-408B-73	Sequence 73,
23	59	•	29	_	US-08-096-762-73	
24	59	100.0	29	_		
25	59	100.0	29	N	US-09-042-353-270	
26	59	100.0	29	N		Sequence
27	59	2000	,			2000

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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US-08-645-641-89	US-08-053-131-89	PCT-US92-10983-92	US-08-758-417A-137	US-09-042-353-289	US-08-308-865-92	US-08-096-762-92	US-07-853-408B-92	US-08-645-641-92	US-08-053-131-92	PCT-US92-10983-83	US-08-758-417A-128	US-09-042-353-280	US-08-308-865-83	US-08-096-762-83	US-07-853-408B-83	US-08-645-641-83	US-08-053-131-83
Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
, 68	89,	92,	137	_		92,					128	280	-	83,	-	•	83,
App	ĄġĄ	ĄgĄ		, Ap	App1	App	ĄgĄ	App	App	App	Αp	, Ap	ĄgA	App1	App	App	App

ALIGNMENTS

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; MOLECULE TYPE: US-08-471-780C-120
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US-08-471-780C-120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 120, Application US/08471780C Patent No. 5759808 GENERAL INFORMATION:
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                              ZIP: 2005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PALENTIN PC-DOS/MS-DOS
SOFTWARE: PALENTIN PC-DOS/MS-DOS
COPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION NATA:
APPLICATION NUMBER: US/08/471,780C
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/106,944
FILING DATE: 17-AUG-1993
APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 93401310.3
PILING DATE: 21-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: POLTER: Jane E.R.
REGISTRATION NUMBER: 33,332
                                                                                                                                                                              TELEPHONE: 202-408-400
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 33,332
REFERENCE/OOCKET NUMBER: 044
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
STREET: 1300 I Street, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Casterman, Cecile
APPLICANT: Hamers, Raymond
TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 1300 I St
CITY: Washington
STATE: D.C.
                                                                                                                  TOPOLOGY:
                                                                                                                                  TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                         ENGTH:
                                                                                                                                                              11 amino acids
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                                                                                        peptide
    100.0%;
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    Score 59; DB 1;
Pred. No. 0.0017;
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                         Length 11;
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PALENT NO. 584,0853
; GENERAL INFORMATION:
APPLICANT: Casterman, Cecile
APPLICANT Hamers, Raymond
TITLE OF INVENTION: Immunogle
NUMBER OF SEQUENCES: 130
                                                                                                                         RESULT 3
US-08-471-282A-120
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                                                                                                                                                                                                                                                                                                                                             US-08-467-282B-120
                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: POTTER, Jane E.R.
REGISTRATION NUMBER: 33,332
REFERENCE LOCKET NUMBER: 0495.
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEPAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 120:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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                                                                                                                                                                                                                                                                                        Query Match 100.0%; Score 59; DB 1; Length 11; Best Local Similarity 100.0%; Pred. No. 0.0017;
                                                                                                         Sequence
                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/106,944
FILING DATE: 17-AUG-1993
APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 93401310.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Casterman, Cecile
APPLICANT: Hamers, Raymond
TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains
NUMBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:

Finnedan. Henderson, Farabow, Garrett & Dunne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 21-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: Potter, Jane R D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 1300 I St
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/01
FILING DATE: 06-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
                                                                                                          120, Application US/08471282A
                                                                                                                                                                                                                                                                       11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11; Conservative
                                                                                                                                                                                                                                    1 WGQGTTVTVSS 11
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                                                                                                                                                                                                                                                                                                                                                                              amino acid
GY: linear
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1300 I Street, N.W.
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                                                                                                                                                                                                                                                                                                                                                                                                               11 amino acids
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                                                       Casterman, Cecile
   Immunoglobulins Devoid of Light Chains
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US-08-318-157B-40
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                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 40 Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 11; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 08/106,944
FILING DATE: 17-AUG-193
APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 93401310.3
FILING DATE: 21-MAY-193
ATTORNEY/AGENT INFORMATION:
NAME: POTTER: Jane E.R.
REGISTRATION NUMBER: 33,332
REGERENCE/DOCKET NUMBER: 04958.0008-
ZIP: 20007-5109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, VG
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/08/318,157B
FILING DATE: 05-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 202-408-4400 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner STREET: 1300 I Street, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/00
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                    APPLICANT: HANSEN, Hans J.

APPLICANT: ARMOUR, KATHYN L.

TITLE OF INVENTION: CDR-GRAFTED TYPE III ANTI-CEA HUMANIZED
TITLE OF INVENTION: MOUSE MONOCLONAL ANTIBODIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 1300 I STATE: Washington
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                                                                                                                                                                                                 CITY: Washington STATE: D.C.
                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                        STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE:
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Vo. 5874540
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Application US/08318157B
                                                                                                                                                                                                                                        3E: Foley & Lardner
3000 K Street, N.W., Suite 500
                                                                                                                                                                                USA
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                    US/08/318,157B
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Pred. No. 0.0
0; Mismatches
                                                               Version #1.30
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RESULT 5
US-08-466-710C-120
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           TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 maino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 120, Application US/08466710C Patent No. 5874541
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TELEX: 904136
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                             APPLICATION NUMBER: FR 924
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 934
FILING DATE: 21-MAY-1993
ATTORNEY AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: SAXE, Bernhard D.
REGISTRATION NUMBER: 28,665
REFERENCE/DOCKET NUMBER: 1873
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
                                                                                                                          TELEPHONE: 202-408-4000
                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/0
FILING DATE: 17-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Casterman, Cecile
APPLICANT: Hamers, Raymond
TITLE OF TRANSPORT Immunoglobulins Devoid of Light Chains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: li
MOLECULE TYPE:
                                                                                                                                                          NAME: Potter, Jane E.R. REGISTRATION NUMBER: 33, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 1300 I STATE: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         / Match 100.0%; Score 59; DB 1; Length 11; Local Similarity 100.0%; Pred. No. 0.0017;
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                                                                                                                        TELEPHONE:
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1300 I Street, N.W.
                                                11 amino acids
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                                                                                                                                                                                                                                                                                                                FR 92402326.0
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RESULT 7
US-08-646-265A-114
is Sequence 114, Application US/08646265A
; Patent No. 6214973
; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                   ; TOPOLOGY: 1;
; MOLECULE TYPE:
US-08-468-739C-120
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                                                                                                                                                                                                  Matches
                                                                                                                                                                                                               Query Match
Best Local Similarity
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Best Local Similarity
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 202-408-4400 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 530
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 08/106,944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 08/106,944
FILING DATE: 17-AUG-1993
APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 93401310.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/468,739C
FILING DATE: 06-UUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner STREET: 1300 I Street, N.W.
                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 21-MAY-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Casterman, Cecile
APPLICANT: Hamers, Raymond
TITLE OF INVENTION: Immunoglo
                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 33,332
REFERENCE/DOCKET NUMBER: 04
                                                                                                                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Potter, Jane E.R.
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                                                                                                                                                                                                                                                                                                                   amino acid
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                                                                                                                                                                                                                                                                                                                                   11 amino acids
                                                                                                                                                                                               100.0%; Score 59; DB 2; ilarity 100.0%; Pred. No. 0.0017; Conservative 0; Mismatches 0
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                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                         202-408-4000
                                                                                                                                                                                                                                                                                     peptide
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                                                                                                                                                                                                                               Length 11;
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US-08-646-265A-129
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TELEX: 904136
INFORMATION FOR SEQ ID NO: 11
SEQUENCE CHARACTERISTICS:
FUNCTH: 11 amino acids
                                                                                                                                                                                                                                                                                                               Sequence 129, Application US/08646265A Patent No. 6214973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                               GENERAL INFORMATION:

APPLICANT: OHTOMO, Toshihiko
APPLICANT: SATO, Koh
APPLICANT: TSUCHIYA, Masayuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTEIN PC-BOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/646,265A
FILING DATE: 09-SEP-1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                 TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN TITLE OF INVENTION: MEDULLOBLASTOMA CELLS NUMBER OF SEQUENCES: 132
CORRESPONDENCE ADDRESS:
ADDRESSE: Foley & Lardner STREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION: TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/JP94/01763
PILING DATE: 19-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 5-291078
APPLICATION TOWNSTER: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN TITLE OF INVENTION: MEDULLOBLASTOMA CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53466/184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 3000 K St
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Match 100.0%; Score 59; DB 2; Length 11; Local Similarity 100.0%; Pred. No. 0.0017;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 WGQGTTVTVSS 11
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                                                                                                 Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                 WGQGTTVTVSS 11
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                                                                               b.c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OSA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 40, Applicati Patent No. 6676924 GENERAL INFORMATION:
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Best Local Similarity 100.0%;
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TELEX: 904136
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 5-291078

FILING DATE: 19-NOV-1993

ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 09-SEP-
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE:
                                                                                                                                                                         COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/253,794
FILING DATE: 22-Peb-199
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: CDR-CRAFTED TYPE III ANTI-CEA HUMANIZED
MOUSE MONOCLONAL ANTIBODIES
NAME: SAXE, Bernhard D.
REGISTRATION NUMBER: 28,665
REFERENCE/DOCKET NUMBER: 18733/464
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/318,157
FILING DATE: 05-0CT-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: HANSEN,
ARMOUR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11;
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STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                           ZIP: 20007-5109
                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Application US/09253794
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(202)672-5399
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SYSTEM: PC-DOS/MS-DOS
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Pred. No. 0.0017;
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TELEFAX: (202)672-5399

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; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-09-253-794-40
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; TYPE: PRT
; ORGANISM: Mus musculus
US-09-563-222C-146
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Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                                                                  Sequence 169, Application US/09563222C Patent No. 6696620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                            APPLICANT: BPICYTE PHARMACEUTICALS, INC.
APPLICANT: HIATT, ANDREW C.
APPLICANT: HIATT, ANDREW C.
APPLICANT: HEIN, MICH B.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS
FILE REFERENCE: 068904-0501
CURRENT APPLICATION NUMBER: US/09/563,222C
CURRENT FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: PCT/US01/14349
PRIOR FILING DATE: 2001-05-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: EPICYTE PHARMACEUTICALS, INC.
APPLICANT: HIATT, ANDREW C.
APPLICANT: HEIN, MICH B.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS
FILE REFERENCE: 068904-0501
CURRENT APPLICATION NUMBER: US/09/563,222C
CURRENT FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: PCT/US01/14349
PRIOR PILING DATE: 2001-05-02
PRIOR PILING DATE: 2000-05-02
PRIOR PILING DATE: 2000-05-02
PRIOR PILING DATE: 2000-05-02
PRIOR FILING DATE: 2000-05-02
PRIOR FILING DATE: 2000-05-02
                   PRIOR APPLICATION NUMBER: 09/563,222
PRIOR FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Ver. 2.1 EQ ID NO 146
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INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
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PatentIn Ver.
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TYPE: amino acid
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Pred. No. 0.0017;
Mismatches 0
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Pred. No. 0.0017;
; Mismatches 0
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FEATURE:
OTHER INFORMATION: Description of Unknown Organism:
PUBLICATION INFORMATION:
AUTHORS: Ravetch, J. et al.
JOURNAL: CELL
VOLUME: 27
PAGES: 583-591
DATE: 1981
US-09-269-921-137
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; TYPE: PRT
; ORGANISM: Mus musculus
US-09-563-222C-169
              APPLICANT: CASTERMAN, CECILE
APPLICANT: HAMERS, RAYMOND
TITLE OF INVENTION: IMMUNOGLOBULINS DEVOID OF LIC
FILE REFERENCE: 04958 0008-07000
CURRENT APPLICATION NUMBER: US/09/293,769A
CURRENT FILING DATE: 1999-04-19
PRIOR APPLICATION NUMBER: 08/471,284
PRIOR APPLICATION NUMBER: 08/471,284
PRIOR APPLICATION NUMBER: 07/106,944
PRIOR FILING DATE: 1995-10-15
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US-09-293-769A-120
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US-09-269-921-137
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EARLIER FILING DATE: 1996-10-04
NUMBER OF SEQ ID NOS: 137
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 137
LENGTH: 11
TYPE: PRT
                                                                                                                                                                                                                  Sequence 120, Applic Patent No. 6765087 GENERAL INFORMATION:
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Patent No. 66922
Patent INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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APPLICANT: Ohtomo, Toshihiko
APPLICANT: Tsuchiya, Masayuki
APPLICANT: Yoshimura, Yasushi
APPLICANT: Koishihara, Yasushi
TITLE OF INVENTION: RESHAPED HUMAN ANTI-HM 1.24 ANTIBODY
FILE REFERENCE: 35029-20007.00
CURRENT APPLICATION NUMBER: US/09/269,921
CURRENT FILING DATE: 1999-04-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EARLIER APPLICATION NUMBER: PCT/JP97/03553
EARLIER FILING DATE: 1997-10-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                              / Match 100.0%; Score 59; DB 2; Local Similarity 100.0%; Pred. No. 0.0017; nes 11; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Match 100.0%;
Local Similarity 100.0%;
les 11; Conservative 0
APPLICATION NUMBER: EPO 92402326.0
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Pred. No. 0.0017;
                                                                                                                                                            LIGHT CHAINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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RESULT 14
5189147-14
5189147-14
5189147
, PATENT NO. 5189147
, APPLICANT: SAITO, HARUO; KRANZ, DAVID M.; ELSEN, HERMAN N.;
;TONEGAWA, SUSUMU
; TITLE OF INVENTION: METERODIMERIC T LYMPHOCYTE RECEPTOR
;
                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 15
US-08-765-179B-8
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-293-769A-120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO:14:
LENGTH: 13
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Best Local Similarity
Matches 11; Conserv
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SEQ ID NO 120
                                                                                                                                                                                                                                                                                                                                                                           Sequence 8, Application US/08765179B
Patent No. 5854027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR FILING DATE: 1992-08-21
PRIOR APPLICATION NUMBER: EPO 93401310.3
PRIOR FILING DATE: 1993-05-21
NUMBER OF SEQ ID NOS: 130
                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 21
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/O
FILING DATE: 14 NOV-1988
PRIOR APPLICATION DATA:
               ZIP: 20005-5701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                        NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE Nikaido, Marmelstein, Murray & Oram LLP
STREET: 655 Fifteenth Street N.W. Suite 330
                                                                                                                                                                                                                                                                                 APPLICANT: STEIPE, Boris
APPLICANT: STEINBACHER, Stefan
TITLE OF INVENTION: PROCESS FOR MODIFYING THE STABILITY
TITLE OF INVENTION: OF ANTIBODIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 666,988
FILING DATE: 31-OCT-1984
APPLICATION NUMBER: 620,122
FILING DATE: 13-JUN-1984
                                                                                                                                                   COUNTRY: U.S.A.
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nilarity 100.0%;
Conservative 0
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Pred. No. 0.002;
Mismatches
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                                                               Matches
                                                                                              Query Match
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INFORMATION FOR SEQ ID NO: 8
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
                                                                                                                                                                                                                                                                              FILING DATE: 14-JAN-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/02626
FILING DATE: 06-JUL-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 44 25 115.
                                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: protein
                                                            / Match 100.0%;
Local Similarity 100.0%;
les 11; Conservative 0
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                               1 WGQGTTVTVSS 11
                                                                                                                                                                                                 amino acid
WGQGTTVTVSS 15
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                                                              Score 59; DB 1; Length 15;
Pred. No. 0.0023;
Nismatches 0; Indels
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                                                                   Gape
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Search completed: December 4, 2005, 04:09:45
Job time: 24.6042 secs

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Minimum
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                                                                                                                                                                                                                                                                                                                                                                                                                      Perfect score:
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geq
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                                                                                                                                                                                                            Minimum Match 0%
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                                                                                                                                                                          Maximum Match 100%
Listing first 45 summaries
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                                                             geneseqp1980s:*
geneseqp1990s:*
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geneseqp2002s:*
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              geneseqp2003as:*
geneseqp2003bs:*
geneseqp2004s:*
geneseqp2005s:*
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                                                                                                                                                                                                                                                                                          2443163
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	œ	7	0	5	4	ω	2	-	Result
44	44	45	45	45	45	45	45	45	45	46	46	46	46	47	47	47	47	47	47	47	48	60	60	Score
73.3	73.3	-	75.0		75.0	75.0	75.0	75.0	75.0	76.7	76.7	76.7	76.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	80.0	100.0	100.0	Query Match
14		256	256	135	117	24			16	140	126	21	13	469	468	244	134	134	129	114	122	11	11	Query Query Match Length
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ADY70216	AAU02710	ADG96416	ABP45589	ADW04946	AEB01019	ADW77426	ADG97884	ABP47057	ADW04952	ADW04810	ADZ41994	ADW04816	ADR38712	AEB45853	AEB45891	ADR28082	ADV86824	ADD28237	ADD28323	ADD28082	AEB45960	ADR38725	ADR38724	ib
Ady70216 Human Mab		Adg96416 Single ch	Abp45589 Human BLy	Adw04946 PAPP-A im	Aeb01019 Human hea	Adw77426 Human pla	Adg97884 scFV VHCD	Abp47057 Human BLy	Adw04952 PAPP-A im	Adw04810 PAPP-A im	Adz41994 Ig H chai	Adw04816 PAPP-A im	Adr38712 Mouse hea	Aeb45853 Human mon	Aeb45891 Human mon	Adr28082 NPB polyp	Adv86824 Bacillus	Add28237 Human het		Add28082 Lymphoma	Aeb45960 Human mon	Adr38725 Mouse hea	se h	Description

The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone \$25, C25, C39, IC6, 3012, B4, IF3, huC25, A1, Ar2, WR1(V), WR1(T), 3-1, 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum neurotoxin type A (BoNT/A). Also described are: a polypeptide (II) comprising BoNT/A neutralising epitope having an epitope that is

New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.

Example 3; SEQ ID NO 126; 110pp; English.

WPI; 2004-652009/63.

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
134	134	134	129	127	127	127	127	127	127	123	123	123	122	117	109	18	17	17	16	16
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ADD28331	ADD28332	ADD28238	ADE28407	AEA21438	ADL25432	ADK18607	ADK18901	ADK18819	ABG76565	ADY70198	ADP03878	ADP03879	AAU02589	ADK18782	ADI05782	AEA21444	ADG97692	ABP46865	ADG96945	ABP46118
Add28331 Human het	Add28332 Human het	Add28238 Human het	Ade28407 Human ant	Aea21438 Human ant	Adl25432 Human mAb	Adk18607 Anti-huma	Adk18901 Anti-huma	Adk18819 Anti-huma	Abg76565 HCV E1 an	Ady70198 Human mon	Adp03878 Murine-ex	Adp03879 Murine-ex	Aau02589 Anti-adip	Adk18782 Anti-huma	Adi05782 Human mon	Aea21444 Human ant	Adg97692 scFV VHCD	Abp46865 Human BLy	Adg96945 scFV VHCD	Abp46118 Human BLy

ALIGNMENTS

RESULT 1

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ADR38724
                                                                                                                                                                                                                                                                                        antibacterial; antibody; botulinum neurotoxin type A; BONT/A; BONT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3.
                                                                                                                                                                                          31-AUG-1998; 98US-00144886.
01-AUG-2002; 2002US-0400721P.
                                                                                                                                                                                                                   01-AUG-2003; 2003US-00632706.
                                                                                                                                                        Marks JD,
                                                                                                                                                                                                                                      09-SEP-2004.
                                                                                                                                                                                                                                                       US2004175385-A1.
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                                                                                                                                                                                                                                                                                                                                                                                        ADR38724 standard; peptide; 11
                                                                                                                                                                         (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                        Mus sp.
                                                                                                                                                                                                                                                                                                                                    Mouse heavy chain variable region CDR3 seqid 126.
                                                                                                                                                        Amersdorfer P;
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CC specifically bound by an antibody expressed by clones as mentioned in (I) (I) producing (I); and a composition (III) comprising several anti-cc botulinum neurotoxin antibodies, where each antibody is specific for a CC different epitope of a botulinum neurotoxin and the combination of CC antibodies shows greater toxin neutralisation than the single antibodies (I) and a kit comprising (I). (I) is useful for neutralising CC comprising (I); and a kit comprising (I). (I) is useful for neutralising CC BONT/A antibody and for neutralising botulinum neurotoxin which CC involves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin and the CC combination of antibodies shows greater toxin neutralisation than the CC single antibodies in surplus. (I) is useful for diagnosing the botulism CC or for treating pathologies associated with botulinum neurotoxin CC poisoning. (I) exhibits specificity and affinity towards BONT/A. (I) CC enables rapid detection or diagnosis of botulism. This is the amino acid sequence of mouse heavy chain variable region complementarity determining CC region 3 (CDR3) from anti-botulinum neurotoxin antibodies.
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Best Local
The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone S25, C25, C39, 1C6, 3D12, B4, 1F3, huC25, Ar1, Ar2, WR1(V), WR1(T), 3-1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antibacterial; antibody; botulinum neurotoxin type A; BoNT/A; BONT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin polsoning; mouse; heavy chain variable region; complementarity determining region; CDR3.
                                                                                                                                                                                                                                                     Example 3; SEQ
                                                                                                                                                                                                                                                                                                                                                      New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-652009/63.
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01-AUG-2002; 2002US-0400721P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-AUG-2003; 2003US-00632706.
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                                                                                                                                                                                                                                                 ID NO 127; 110pp; English
                                                                                                                                                                                                                                                                                                                         neurotoxin poisoning
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Pred. No. 0.0017;
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New antibody to Mucosal Adressin Cell Adhesion Molecule, useful for diagnosing and treating an inflammatory disease, e.g. inflammatory disease, ulcerative colitis, gastritis, insulin-dependent diabetes

õ bowe1

graft versus host

disease.

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RRESULT 3
ARB450
IID ARB45
AC ARB4
XX ARB4
XX ARB4
XX MONC
KW MICE
KW MICE
KW IICE
KW 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Comprising BoNT/A, also described are: a polypeptide (II) cc comprising BoNT/A neutralising epitope having an epitope that is generifically bound by an antibody expressed by clones as mantioned in (I) producing (I), and a composition (III) comprising several anticody in the comprising several anticody is specific for a cc different epitope of a botulinum neurotoxin and the combination of cc antibodies shows greater toxin neutralisation than the single antibodies in surplus. The following are disclosed: a pharmaceutical composition (I) and a kit comprising (I), (I) is useful for neutralising cc involves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin and the combination of antibodies shows greater toxin neutralisation than the combination of antibodies shows greater toxin neutralisation than the combination of antibodies shows greater toxin neutralisation than the cc single antibodies in surplus. (I) is useful for diagnosing the botulism cc poisoning. (I) exhibits specificity and affinity towards BoNT/A. (I) ce poisoning. (I) exhibits specificity and affinity towards BoNT/A. (I) region 3 (CDR3) from anti-botulinum neurotoxin antibodies.
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                                                                                                                                                                                                                                                                                                   (PFIZ )
(ABGE-)
(PFIZ )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammation; inflammatory bowel disease; Crobns disease, ulcerative colitis; diverticular disease; gastritis; liver primary biliary cirrhosis; primary sclerosing cholangitis; insulin dependent diabetes; graft versus host disease; ant
                                                                                                                                                                                                                                                                                                                                                                                                                         09-JAN-2004;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-JAN-2005; 2005WO-US000370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gastrointestinal-gen.; antiulcer; hepatotropic; antidiabetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monoclonal antibody; mucosal addressin cell adhesion molecule; MAdCAM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human monoclonal anti-MAdCAM antibody related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AEB45960 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 11 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2005067620-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunosuppressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                    2005-554958/56
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                                                                                                                                                                                                                                                                                                   ) PFIZER INC.
) ABGENIX INC.
) PFIZER LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
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                                                                                                                                                                                                                                        Molloy E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                             2004US-0535490P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein; 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     where (I) binds to and neutralizes botulinum BONT/A). Also described are: a polypeptide (I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                                                                                                                            Kellermann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 60;
Pred. No. (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                            Ś
                                                                                                                                                                                                                                               Green
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.0017,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 11;
                                                                                                                                                                                                                                            Haak-Frendscho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                liver disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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Example 5; Fig

1; 167pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                               B-cell; malignant; immunoglobulin; immunoglobulin variable region; Ig variable region; glycosylation site; lymphoma; B cell receptor; cytostatic; gene therapy; glycosylation inhibitor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a human monoclonal antibody or its antigen-
binding portion that specifically binds to mucosal addressin cell
adhesion molecule (WAdCAM). The invention also relates to a hybridoma
                                                                                                                                                                                                                                                      Ig variable region; glycosylation site; cytostatic; gene therapy; glycosylation non-Hodgkin's lymphoma.
                                                                                                                                                                                                                                                                                                                                                                                                                          15-JAN-2004
07-MAR-2002; 2002GB-00005395
                                              24-FEB-2003; 2003WO-GB000783
                                                                                                                                           WO2003074059-A2
                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                       Lymphoma related immunoglobulin variable region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADD28082 standard; protein; 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           anti-MAdCAM antibody related protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       composition comprising an amount of the monoclonal antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cell line that produces the human monoclonal antibody, a pharmaceutical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VVTYYYYGMDV 110
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                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 48; DB 9;
Pred. No. 2.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Indels
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RRESULT 5
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ADD283
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AC ADDDX
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AC ADDDX
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DT 15---
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DE Huma
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KW edem
KW w ant:
KW Venn
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11-1
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PF 11-1
PR 29-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a method for classifying a B-cell as CC malignant or normal comprising: (a) isolating a sequence representing an CC immunoglobulin (Ig) variable region from the B cell; (b) detecting the CC presence of a glycosylation site; and (c) classifying the cell as CC malignant or normal on the basis of the presence or absence of a glycosylation site. Also described: (l) treating a patient suffering from CC dycosylation site. Also described: (l) treating a patient suffering from CC inhibiting glycosylation of the Ig variable region of the B cell receptor C; and (3) screening for substances (a) capable of inhibiting the cCC interaction between lectins of the type found in the germinal centre and CC N-glycans found on the surface of Ig of lymphoma cells. (S) has CC glycosylation inhibitor. The method is useful in classifying a B-cell as CC glycosylation inhibitor. The glycosylation inhibitor is useful in preparing a CC medicament for treating non-Hodgkin's lymphoma. The present sequence creaments an Ig variable region sequence which is used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                  human heterodimeric antibody; human; antibody; binding affinity; protective antigen; Bacillus anthracis; anthrax infection; cell recept edema factor; lethal factor; virucide; antibacterial; immunotherapy; anti-toxin; anti-infective; anthrax; botulinum; smallpox; Venezuelan equine encephalomyelitis virus; VEEV; West Nile virus; WNV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Classifying a B-cell as malignant or normal by isolating a sequence representing an Ig variable region from the B cell, detecting the presence of a glycosylation site and classifying the cell as malignant or
                     11-FEB-2002; 2002US-0356086P
29-APR-2002; 2002US-0376408P
27-SEP-2002; 2002US-0414053P
25-NOV-2002; 2002US-0428807P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human heterodimeric antibody heavy chain variable region SEQ ID NO:101.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADD28323 standard; protein; 129 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 114 AA;
                                                                                                                                  11-FEB-2003; 2003WO-US004206.
                                                                                                                                                                               18-SEP-2003.
                                                                                                                                                                                                                      WO2003076568-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-JAN-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Fig 3; 61pp; English.
                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (CANC-) CANCER RES TECHNOLOGY LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity nes 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       106 TYYYYGMDV 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3 TYYYFGLDV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   78.3%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 47; DB 7; Pred. No. 3.4;
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ARRESULT 6
ADD28271
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DE Huma
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KW edem
KW edem
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Vena
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III-F
PF 11-F
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III-F
PR 25-F
PR 25-F
PR 25-F
PR 25-F
PR 25-F
PR 27-S
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Matches
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                                                                                                                                                                   11-FEB-2002;
29-APR-2002;
27-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes a human heterodimeric antibody (I) (fragment) having a binding affinity of at least 1x10-8 M to the protective antigen of Bacillus anthracis or a molecule involved in anthrax infection that blocks binding of the antigen or molecule to receptors, edema factor and lethal factor. (I) has virucide and antibacterial activities, and can be used in immunotherapy. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                human heterodimeric antibody; human; antibody; binding affinity; protective antigen; Bacillus anthracis; antibrax infection; cell receptor; edema factor; lethal factor; virucide; antibacterial; immunotherapy; anti-toxin; anti-infective; anthrax; botulinum; smallpox; Venezuelan equine encephalomyelitis virus; VEEV; West Nile virus; WNV.
                      WPI; 2003-722327/68
                                                                Bowdish KS,
                                                                                                                                                                                                                                                         11-FEB-2003; 2003WO-US004206.
                                                                                                                                                                                                                                                                                                   18-SEP-2003
                                                                                                                                                                                                                                                                                                                                             WO2003076568-A2
                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human heterodimeric antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADD28237;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADD28237 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 present sequence represents a human heterodimeric antibody heavy chain variable region amino acid sequence, which is used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antibodies (I) are useful as anti-toxins or anti-infectives with respect to infective agents, such as anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis virus (VEEV), or West Nile virus (WNV). The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis or West
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New human heterodimeric antibodies or their antibody fragments, useful anti-toxins or anti-infectives with respect to infective agents, e.g.
                                                                                                                                                                                                                                                                                                                                                                                       Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JAN-2004
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                                                                                                         (ALEX-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
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7; Conserv
                                                                                                       ALEXION PHARM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALEXION PHARM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYYYYGMDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYYYPGLDV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ
                                                                                                                                                 ; 2002US-0356086P.
; 2002US-0376408P.
; 2002US-0414053P.
; 2002US-0428807P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                  Wild MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ID NO 101; 67pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       78.3%;
77.8%;
                                                                                                         INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INC
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Pred. No. 3.9;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              heavy chain variable region SEQ ID NO:15.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB
3.9;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  88
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The present invention describes a human heterodimeric antibody (I) (fragment) having a binding affinity of at least 1x10-8 M to the protective antigen of Bacillus anthracis or a molecule involved in anthrax infection that blocks binding of the antigen or molecule to cell receptors, edema factor and lethal factor. (I) has virucide and antibacterial activities, and can be used in immunotherapy. The antibodies (I) are useful as anti-toxins or anti-infectives with respect
                                                                                                                                                                                                                                                                                                                                                                                                            Nile
                                                                 to infective agents, such as anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis virus (VEZV), or West Nile virus (WNV). The present sequence represents a human heterodimeric antibody heavy chain variable region amino acid sequence, which is used in the exemplification
                                          of the present invention.
                                                                                                                                                                                                                                                                                                                                                            Claim 6; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                New human heterodimeric antibodies or their antibody fragments, useful as anti-toxins or anti-infectives with respect to infective agents, e.g. anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis or West
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                                                                                                                                                                                                                                                                                                                                                               15;
                                                                                                                                                                                                                                                                                                                                                          67pp;
                                                                                                                                                                                                                                                                                                                                                               English.
                                                                      the exemplification
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Query Match
Best Local S
Matches
110
             ω
                          Similarity 7; Conserv
TYYYYGMDV
        TYYYFGLDV
                           Conservative
118
            11
                                 78.3%;
77.8%;
                                  Score 47;
Pred. No.
                            Mismatches
                                         DB
                                         7;
                           <u>,</u>
                                        Length
                            Indels
                                          134;
                           0
                            Gape
                            0
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F δ

Sequence

134 AA;

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10-MAR-2005
                       ADV86824;
                                             ADV86824
                                             standard;
(first entry)
                                            protein; 134
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Bacillus anthracis toxin Fab 9 K 2e G pro heavy chain variable region.

antibacterial; Bioterrorism; Bacillus anthracis infection; vaccine; diagnosis antibody; heavy chain variable region

WO2004110362-A2

23-DEC-2004

26-MAY-2004; 2004WO-US016557

02-JUN-2003; 2003US-00452593

ALEXION PHARM INC

8 Frederickson S, Wild ₹, Maruyama Ħ, Nolan ξ

Treating an animal with anthrax infection by administering the protective antigen of Bacillus anthracis, and blocking cell receptors, edema factor or lethal factor. an antibody binding to ç

ID NO 15; 87pp; English

comprises administering an antibody or antibody fragment that binds to a molecule involved in anthrax infection and which has the ability to block the binding of the molecule to at least one of a cell receptor, PA63, PA63, edema factor and lethal factor. A claimed method for determining exposure to B. anthracis comprises assaying a sample for the presence of a molecule selected from cell receptors, PA63, PA63 heptamer, A claimed method for treating an animal infected with Bacillus anthracis

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RESULT 8
ADR28082
ID ADR2
XX ADR2
XX ADR2
XX NPB
XX CYtc
XX NPB
XX CYtc
XX Muss
OS Synt
XX Muss
OS Synt
XX W02(
PN W02(
PN W02(
PN W02(
XX M03(
PT Regi
PT Regi
PT Regi
PT Regi
PT XX M02(
XX M03(
XX 
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WPI; 2004-507700/48
                                                                        Jay DG,
                                                                                                       Unger CM,
                                                                                                                                                                                                                                                                                           20-DEC-2002;
15-JAN-2003;
                                                                                                                                                                                                                                                                                                                                                                                                          22-DEC-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NPB polypeptide scFv27, seq id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADR28082 standard; protein; 244 AA
                                                                                                                                                                                (XERI-) XERION PHARM AG. (TUFT ) UNIV TUFTS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 TYYYFGLDV 11
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                                                                    , Beste G,
Eustace BK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        metastasis inhibitor; neuropilin binder; NPB; scFv;
n antibody; neuropilin-1; NP-1; angiogenesis; tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                           2002US-0435893P.
2003EP-00000615.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                          2003WO-EP014756.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers 87. .103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78.3%;
77.8%;
                                                                                                           Zehetmeier C,
                                                                        Knauer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 47; DB Pred. No. 4; 2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29
                                                                    C, Lain B,
Jensen KH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               determining region claimed under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                               Torella C,
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                                                                                                               Niewoehner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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RESULT 9
AEB45891
ID AEB44
XX AEB4
AC AEB4
XX AEB4
XX AEB4
XX MONO
CONT 06-O
XX MONO
XX Infil
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a neuropilin binder (NPB) (I) which is a CC polypeptide, antibody, scFv, antibody fragment or bioconjugate, that modulates neuropilin-1 (NP-1) function or inhibits NP-1 dependent cangiogenesis of endothelial cells and/or invasion of tumour cells, converge the NPB binds to NP-1 and modulates NP-1 function. Further contributes of a naturally occurring invasive cancer cell on the invasiveness of a naturally occurring invasive cancer cell on the continuality of NP-1. The NPB of the invention is an inhibitor of metastasis of NP-1 mediated invasion and/or adhesion and an inhibitor of tumour-associated NP-1 dependent angiogenesis. The NPB of the invention is useful for detecting NP-1 expression, modulation of NP-1 function, can advantance of medicament for the treatment or prevention of the angiogenesis and non-physiological blood vessel growth, particularly correlated with a tumour. It is also useful for treatment or prevention of cancer and/or metastasis of tumour cells. The current sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monoclonal antibody; mucosal addressin cell adhesion molecule; MAdCAM; inflammation; inflammatory bowel disease; Crohns disease; ulcerative colitis; diverticular disease; gastritis; liver disease; primary beliary cirrhosis; primary sclerosing cholangitis; insulin dependent diabetes; graft versus host disease; antiinflammator; gastrointestinal-gen.; antiulcer; hepatotropic; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AEB45891 standard; protein; 468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel neuropilin binder which is scFv, antibody fragment or bioconjugate, that modulates neuropilin-1 function or inhibits NP-1 dependent angiogenesis of endothelial cells and/or invasion of tumor cells useful for treating cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; ADR28116
                                                                                        (PFIZ )
(ABGE-)
(PFIZ )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human monoclonal anti-MAdCAM antibody #27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-OCT-2005
                                                                                                                                                                                                                 09-JAN-2004; 2004US-0535490P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      represents a single chain antibody neuropilin binder (NPB)
                                                                                                                                                                                                                                                                               07-JAN-2005; 2005WO-US000370
                                                                                                                                                                                                                                                                                                                                                                                                           WO2005067620-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mmunosuppressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95
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7; Conserv
                                                                                           PFIZER LTD.
                                                                                                                        PFIZER INC.
ABGENIX INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYYYFGLDV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 29; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           244 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antibody.
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77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 47; DB Pred. No. 7.7; 2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              isease; antiinflammatory;
antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polypeptide.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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0

Pullen

N, Molloy E,

Kellermann

S

Green

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Haak-Frendscho

2005-554958/56.

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RESULT 10
AEB45853
ID AEB45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CC nucleate acid molecule comprising a nucleotide sequence encoding the heavy chain or its antigen-binding portion or the light chain or its antigen-binding portion or the light chain or its antigen-compined above, a vector comprising the nucleic acid molecule, where the vector optionally comprises an cc expression control sequence operably linked to the nucleic acid molecule, a host cell comprising the vector optionally comprises an cc method of producing a human monoclonal antibody or its antigen-binding cc portion that specifically binds MACAM, a method of isolating an antibody or its antigen-binding portion that specifically binds to MACAM, a cc method of treating a subject in need of a human antibody or its antigen-binding to coll solating portion that specifically binds to MACAM and inhibits binding to call season, a method of treating to coll season, a method of thibiting MACAM and inhibits binding to call season, a method of inhibiting MACAM mediated leukocyte captessing human MACAM, a method of inhibiting MACAM mediated leukocyte inhibiting water adhesion, cc inhibiting alpha4beta7/MACAM-dependent cellular adhesion, cc inhibiting the MACAM mediated recruitment of lymphocytes to captesing human MACAM mediated recruitment of lymphocytes to captesing human MACAM mediated recruitment of lymphocytes to coliting collaboration in a subject. The antibody, composition and methods are useful for diagnosing and treating inflammatory disease, e.g. captrities liver disease, licerative colitis, cliver disease, craftities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cell line that produces the human monoclonal antibody, a pharmaceutical composition comprising an amount of the monoclonal antibody or its antigen-binding portion and a pharmaceutical carrier, a method of treating inflammatory disease in a subject, an isolated cell line that produces the monoclonal antibody or its antigen-binding portion or the heavy chain or light chain of the antibody, or of its portion, an isolat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antibody to Mucosal Adressin Cell Adhesion Molecule, useful for diagnosing and treating an inflammatory disease, e.g. inflammatory disease, ulcerative colitis, gastritis, insulin-dependent diabetes
                inflammation; inflammatory bowel disease; Crohns disease; ulcerative colitis; diverticular disease; gastritis; liver disease; primary bilary cirrhosis; primary scherosing cholangitis; insulin dependent diabetes; graft versus host disease; antiinflammatory; gastrointestinal-gen.; antiulcer; hepatotropic; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                graft versus host disease.
                                                                                                                               Monoclonal
                                                                                                                                                                        Human monoclonal anti-MAdCAM antibody #9.
                                                                                                                                                                                                                       06-OCT-2005
                                                                                                                                                                                                                                                                   AEB45853
                                                                                                                                                                                                                                                                                                            AEB45853 standard; protein; 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anti-MAdCAM antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diverticular disease, gastritis, liver disease, primary biliary cirrhosis, primary sclerosing cholangitis, insulin dependent diabetes graft versus host disease. This sequence represents a human monoclonal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   adhesion molecule (MAdCAM). The in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention relates to a human monoclonal antibody or its antigen-
                                                                                                                                                                                                                                                                                                                                                                                                                         123
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      468
                                                                                                                                                                                                                                                                                                                                                                                                                         TYYYYGMDV 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYYYFGLDV 11
                                                                                                                            antibody; mucosal addressin cell adhesion molecule; MAdCAM
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                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  56; 167pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   78.3%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ically binds to mucosal addressin cel
The invention also relates to a hybr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 47; DB Pred. No. 15; 2; Mismatches
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                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 468;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a hybridoma
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cell line that produces the human monoclonal antibody, a pharmaceutical composition comprising an amount of the monoclonal antibody or its composition comprising an amount of the monoclonal antibody or its composition comprising an amount of the monoclonal antibody or its creating inflammatory disease in a subject, an isolated cell line that comprising inflammatory disease in a subject, an isolated cell line that comprising inflammatory disease in a subject, an isolated cell line that comprising the monoclonal antibody or its antigen-binding portion or the heavy chain or light chain of the antibody or its portion, an isolated cell muleic acid molecule, where the vector optionally comprising the heavy chain or its antigen-binding portion or the light chain or its antigen-binding portion or the light chain or its antigen-binding the vector optionally comprises an cell cacid molecule, where the vector optionally comprises an expression that specifically binds MACAM, a method of producing a human monoclonal antibody or its antigen-binding portion that specifically binds to the nucleic acid molecule, a method of traating a subject in need of a human antibody or its antigen-binding to cells subject in need of a human antibody or its antigen-cell adhesion, migration and infiltration into tissues, a method of trahibiting alphateta? binding to cells centered to finibiting MACAM,—mediated recruitment of lymphocytes to centered the machine of subject. The antibody, composition and methods are centered in a subject in a method of diagnosing a disorder cellulary binds to disease, gastritis, liver disease, prinary billary cellular contribution, of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antibody to Mucosal Adressin Cell Adhesion Molecule, useful for diagnosing and treating an inflammatory disease, e.g. inflammatory disease, ulcerative colitis, gastritis, insulin-dependent diabetes graft versus host disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                binding portion that specifically binds to mucosal addressin cerradhesion molecule (MACAM). The invention also relates to a hybridoma cell line that produces the human monoclonal antibody, a pharmaceutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 8; SEQ ID NO 18; 167pp; English
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anti-MAdCAM antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   invention relates to a human monoclonal antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2005-554958/56.
DB; AEB45852.
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ABGENIX INC.
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ç
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the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Haak-Frendscho M;
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123 ω

TYYYYGMDV 131 TYYYFGLDV Matches Query Match Best Local

Similarity 7; Conser

Conservative

78.3**%**; 77.8**%**;

Score 47; Pred. No. Mismatches

. 15; 9 0

Length 469;

Indels

0

Gaps

0

11

Sequence

469

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ANYYYYGMDV 13

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RESULT 11
ADR38
XX AD
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                                                                                                Query Match
Best Local
                                                                   Matches
                                                                                                                                                                                                    Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated antibody that neutralizes botulinum neurotoxin type {\tt A}, useful for diagnosing botulism or for treating pathologies associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-652009/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-AUG-1998;
01-AUG-2002;
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BONT/A neutralising epitope; anti-botulinum neurotoxin antibody;
toxin neutralisation; botulinum neurotoxin poisoning; mouse;
heavy chain variable region; complementarity determining region; CDR3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mouse heavy chain variable region CDR3 seqid 114.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                       3 (CDR3) from
   N
                                                            7; Conserv
                                                                                                                                                                                                       13
ATYYYFGLDV
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                                                                                                                                                                                                    ₽,
                                                                   Conservative
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                                                                                                76.7%;
70.0%;
                                                                                                                                                                                                                                                                    anti-botulinum neurotoxin antibodies.
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                                                                Score 46; DB
Pred. No. 0.5;
2; Mismatches
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RESULT 12
ADWO4816
ID ADWO4816
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CO PAPP-
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to novel proteins (I) that bind to pregnancy-associated plasma protein A (PAPP-A ADM04676). (I) comprises a first and second immunoglobulin variable domain sequence which binds to PAPP-A. Also claimed are proteins (II) which comprise light chain (LC) and heavy chain immunoglobulin variable domain sequences which binds to PAPP-A. The proteins are useful for diagnosing, preventing or treating proliferative diseases such as glioblastoma, osteosarcoma and overgrowth of vascular smooth muscle cells following e.g., balloon angloplasty (which may cause restenosis). The proteins are especially useful for useful for treating diseases involving IGF regulated growth. The present sequence is one such immunoglobulin variable domain sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New pregnancy-associated plasma protein-A (PAPP-A) binding proteins comprising immunoglobulin variable domain sequences, useful for diagnosing, preventing or treating diseases such as cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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Antibody; antibody engineering; antibody therapy;
light chain variable region; heavy chain variable region;
                                                                                        Ig H chain variable region, B-CLL set II peptide
                                                                                                                                                                                                                                                                                  ADZ41994 standard; peptide; 126 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example; SEQ ID NO 141; 168pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LATYYYFGLDV 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               76.7%;
63.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 46; DB 9;
Pred. No. 0.83;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              osteosarcoma
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망
                                                                                                                                                                             CC The new invention relates to combinations of light chain antibody genes and heavy chain antibody genes, useful for treating B cell chronic CC lymphocytic leukemia (B-CLL). B-CLL is a disease of slowly proliferating CC D5+ B lymphocytes. These cells express low levels of surface membrane ig CC CD5+ B lymphocytes. These cells express low levels of surface membrane ig CC that serves as the receptor for antigen (BCR). Analysis of V region gene CC cassette usage has shown that distribution of variable region gene CC cassette usage has shown that distribution of variable region gene CC increased frequency of VH3-07, VH4-34, and VH1-69 genes. This implies that the structure of the antibody molecule, and antigen specificity, CC play a role in the leukemic transformation of particular B cells. The CC patients with aggressive disease share the same classes of VH. D. JH. VL CC and JL antibody genes, forming sets of patients with highly homologous B CC cell receptors. Alternatively, the patients have a disorder selected from CC diabetes mellitus, autoimmune peripheral neuropathy, and autoimmune CC systemic lupus erythematosus, myssthemia gravis, Grave's disease, type I CC diabetes mellitus, autoimmune peripheral neuropathy, and autoimmune CC systemic lupus erythematosus, myssthemia gravis, Grave's disease, type I CC 13/JH5/Tkappal/JLkappal/Kappa2 (Set II); VH1-39/D5-CC 13/JH6/VLkappaA1/JLkappal/Kappa2 (Set III); VH1-69/D3-CC 13/JH4/Tkappa012/2/JLkappa1/Kappa2 (Set III); VH1-03/D6-CC 19/JH4/Tkappa012/2/JLkappa1/Kappa2 (Set VID); VH1-03/D6-19/JH4 (Set VId); VH5-03/D6-19/JH4 (Set VID); VH1-03/D6-19/JH4 (Set VID); VH5-03/D6-19/JH4 (Set VID
                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Burkitts lymphoma; multiple myeloma; systemic lupus erythematosus; antiinflammatory; dermatological; immunosuppressive; myasthenia gravis; muscular-gen; neuroprotective; Graves disease; antithyroid; insulin dependent diabetes; diabetes mellitus; antidiabetic;
                                                                                                                                                                             Sequence 126 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Fig 2; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Buch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated and purified preparation of light chain and heavy chain antibody genes, useful for diagnosing, preventing or treating B cell chronic lymphocytic leukemia, or in screening for agents that may treat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2005-306220/31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NSHO-) NORTH SHORE-LONG ISLAND JEWISH RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-OCT-2003; 2003US-0509473P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-OCT-2004; 2004WO-US033176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2005034733-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              chronic lymphocytic leukemia; cytostatic; Hodgkins disease; lymphoma;
                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BT,
                                               LATYYYFGLDV 11
                                                                                          Conservative
                                                                                                            76.7%;
72.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N, Albesiano E;
                                                                                                            Score 46;
Pred. No.
                                                                                          Mismatches
                                                                                                              ຫ
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                                                                                                                                  Length 126
                                                                                          Indels
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RESULT 14
ADW04810
ID ADW04810
AC ADW04
XX ADW04
XX ADW04
XX ADW04
XX Cytos
KW Cytos
KW Cytos
KW Proli
XX Unide
PN US200
XX Unide
PN US200
XX Unide
PN US201
XX Unide
XX ID-FI
XX New I
PT Comp.
PT diag;
XX New I
PT comp.
PT diag;
XX The
CC preg
CC firs
CC preg
CC in comp.
PN US201
XX Unide
CC preg
CC preg
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CC preg
CC in comp.
PN US201
XX Unide
CC preg
CC preg
CC preg
CC preg
CC preg
CC in comp.
PN US201
XX US201

RESULT 15
ADW04952
ID ADW04
XX ADW04
XX ADW04
XX ADW04
XX O7-AE
XX PAPP-
XX CYtos
KW Proli
XX
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to novel proteins (I) that bind to pregnancy-associated plasma protein A (PAPPA ADW04676). (I) comprises a first and second immunoglobulin variable domain sequence which binds to PAPP-A. Also claimed are proteins (II) which comprise light chain (LC) and heavy chain immunoglobulin variable domain sequences which binds to PAPP-A. The proteins are useful for diagnosing, preventing or treating proliferative diseases such as glioblastoma, osteosarcoma and overgrowth of vascular smooth muscle cells following e.g., balloon angioplasty (which may cause restenosis). The proteins are especially useful for useful for treating diseases involving IGF regulated growth. The present sequence is one such immunoglobulin variable domain sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New pregnancy-associated plasma protein-A (PAPP-A) binding proteins comprising immunoglobulin variable domain sequences, useful for diagnosing, preventing or treating diseases such as cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cytostatic; Vasotropic; heavy chain variable domain; proliferative disorder; restenosis; glioblastoma; osteosarcoma
                          Cytostatic; Vasotropic; heavy chain variable domain; proliferative disorder; restenosis; glioblastoma; osteosarcoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 140 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example; SEQ ID NO 135; 168pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nixon A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US2005009136-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADW04810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADW04810 standard; protein; 140
                                                                                                                                PAPP-A immunoglobulin variable
                                                                                                                                                                                                                                                                                                                             ADW04952 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (DYAX-) DYAX CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-FEB-2003; 2003US-0448515P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 LATYYYFGLDV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hogan S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      76.7%;
63.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    variable domain AB b03 heavy chain SEQ ID 135.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 46; DB
Pred. No. 6.3;
                                                                                                                                domain AB f03 heavy chain CDR3 SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 9;
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Job time : 98.5625 весв
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Best Local Similarity
Matches 7; Conserva
                                                                                                                                                                                                                                      The present invention relates to novel proteins (1) that bind to pregnancy-associated plasma protein A (PAPP-A ADW04676). (1) comprises a first and second immunoglobulin variable domain sequence which binds to PAPP-A. Also claimed are proteins (II) which comprise light chain (LC) and heavy chain immunoglobulin variable domain sequences which binds to PAPP-A. The proteins are useful for diagnosing, preventing or treating proliferative diseases such as glioblastoma, osteosarcoma and overgrowth of vascular smooth muscle cells following e.g., balloon angioplasty (which may cause restenosis). The proteins are especially useful for useful for treating diseases involving IGF regulated growth. The present sequence is one such immunoglobulin variable domain sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New pregnancy-associated plasma protein-A (PAPP-A) binding proteins comprising immunoglobulin variable domain sequences, useful for diagnosing, preventing or treating diseases such as cancer.
                                                                                                                                                                                                             Sequence 16 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example; SEQ ID NO 277; 168pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2005-080519/09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nixon A, Hogan S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-FEB-2003; 2003US-0448515P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-FEB-2004; 2004US-00783311.
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                                                                                                        1 LATYYYFGLDV 11
                                                                      VAGYYYYGMDV 16
                                                                                                                                          Conservative
                                                                                                                                                          75.0%;
63.6%;
                                                                                                                                        Score 45; DB 9; Pred. No. 0.92; 3; Mismatches
                                                                                                                                          1; Indels
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Minimum DB
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60
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pir1:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

ļ	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	o,	v	4	ω	N	,_	Result No.
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1	PI.0094	PH1359	A83788	S44107	E83729	PH1325	S14683	137780	A49047	C33548	PH0954	S48797	S24686	PH1650	PH0961	PH1666	S26793	PH1355	PH1371	PT0258	PH1364	S43960	PH1304	E70380	805271	D70189	PH1328	PH1361		ID
	יה אלי		0	Ig heavy chain V-D	O	heavy cha	mu chain	٧a	cha		Ig heavy chain V r	heavy	heavy	heavy	Ig heavy chain V r	heavy chain V		Ig heavy chain DJ	heavy chain	Ig heavy chain CDR	heavy chair	_	Ig heavy chain DJ	+	Ig heavy chain pre	-	heavy chain	heavy chain	vy chain D	Description

ALIGNMENTS

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R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G. J. Exp. Med. 176, 1577-1581, 1992
A;Title: Predominance of fetal type DJH joining in young children with B precursor lymph: A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1361
                                                                                                                                                         A;Molecule type: DNA
A;Residues: 1-23 <WAS>
A;Residues: UNIPARC:UPI0000176948
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 2
PH1361
                                                                                                                                                                                                                                                                                                                                                                     Ig heavy chain DJ region (clone C178-122B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C;Accession: PH1361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPARC:UPI0000176935
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A;Title: Predominance of fetal type DJH joining in young children with B precursor lymph A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1307
A;Molecule type: DNA
A;Residues: 1-19 <WAS>
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C;Accession: PH1307
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                                                                                Matches
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Best Local
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6; Conservative
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LFPYYYYGMDV 18
                                      LATYYYFGLDV 11
                                                                                Conservative
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66.7%;
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                                                                                Score 43; DB 2;
Pred. No. 0.28;
2; Mismatches
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Pred. No. 0.23;
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pH1328
Ig heavy chain DJ region (clone Cl13-148) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
                                                                                                                                                                                                                                                                          R;Fraser, C.M.; Casjens, S.; Huang, W.M.; Sutton, G.G.; Clayton, R.; Lathigra, R.; son, D.; Peterson, J.; Kerlavage, A.R.; Quackenbush, J.; Salzberg, S.; Hanson, M.; Bowman, C.; Garland, S.; Fujii, C.; Cotton, M.D.; Horst, K.; Roberts, K.; Hatch, Nature 390, 580-586, 1997
Nature 390, Smith, H.O.; Venter, J.C.
A;Authors: Smith, H.O.; Venter, J.C.
A;Title: Genomic sequence of a Lyme disease spirochaete, Borrelia burgdorferi.
A;Reference number: A70100; MUID:98065943; PMID:9403685
A;Accession: D70189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    conserved hypothetical integral membrane protein BB0717 - Lyme disease spirochete C;Species: Borrelia burgdorferi (Lyme disease spirochete) C;Date: 13-Feb-1998 #sequence_revision 13-Feb-1998 #text_change 09-Jul-2004
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C;Superfamily: immunoglobulin V region; imu
C;Keywords: heterotetramer; immunoglobulin
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R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.

Exp. Med. 176, 1577-1581, 1992

A;Title: Predominance of fetal type DJH joining in young children with B precursor lymph A;Reference number: PH1302; MUID:93094761; PMID:1460419

A;Accession: PH1328
A; Accession:
                      A;Cross-references: UNIPROT:Q96BB9; UNIPARC:UPI0000176B50; EMBL:X14584 R;K18h1moto, T.; Okajima, H.; Okumoto, T.; Taniguchi, M. Nucleic Acids Res. 17, 4385, 1899 Nucleic Acids Res. 17, 4385, 1899 A;Title: Nucleotide sequences of the CDNAs encoding the V-regions of H-A;Reference number: S04601; MUID:89296497; PMID:2500644
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A; Residues: 1-29 < WAS>
                                                                                                                                               A; Molecule type: mRNA
A; Residues: 1-160 < KIS1>
                                                                                                                                                                                            A; Reference number: S05270
A; Accession: S05271
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Best Local S
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Best Local
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A; Molecule type: mRNA
A; Residues: 1-144 «XIS2»
A; Residues: 1-144 «XIS2»
A; Cross-references: UNIPARC: UPI0000176B51; EMBL:X14584
C; Superfamily: immunoglobulin homology
C; Keywords: heterotestramer; immunoglobulin
F; 1-19/Domain: signal sequence #status predicted «SIG»
F; 20-160/Product: Ig heavy chain (fragment) #status pre
F; 34-117/Domain: immunoglobulin homology «IMM»
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C,Genetics:
A,Gene: napA2
C,Superfamily: Aquifex aeolicus Na+/H+-exchanging protein napA1
C,Superfamily: Aquifex aeolicus Na+/H+-exchanging protein napA1
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E70380
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A;Title: Predominance of fetal type DJH joining in young A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1304
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N;Alternate names: Na+/H+ antiporter
C;Species: Aquifex aeolicus
C;Date: 08-May-1998 #sequence_revision 08-May-1998 #text_change 09-Jul-2004
C;Accession: E70380
                                                                                                        A; Molecule type: DNA
A; Residues: 1-19 < WAS>
A; Cross-references: UNIPARC: UPI0000176934
C; Superfamily: immunoglobulin V region; in
                                                                                       C; Keywords: heterotetramer; immunoglobulin
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
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                                                                                                                                                                                                                                                                                                                                                             Ig heavy chain DJ region (clone C439-111) - human (fragment)
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4 YYYFGLDV 11

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RESULT 9
PH1364
                                                     R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversite in the control of the co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: Predominance of fetal type DJH joining in young children with B precursor A;Reference number: PH1302; MUID:93094761; PMID:1460419 A;Accession: PH1364
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A;Title: Antibodies generated from human immunoglobulin miniloci in transgenic mice.
A;Reference number: $43956; MUID:94248036; PMID:8190629
A;Accession: $43960
A;Molecule type: DNA
A;Residues: 1-19 <WAG>
                                                                                                                                                                                                                                                                                                                                                                                                                                   Ig heavy chain CDR3 region (clone 2-118B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 30-May-1997
C;Accession: PT0258
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A; Residues: 1-23 < WAS>
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
C;Accession: PH1364
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C;Superfamily: immunoglobulin V region; immunoglobulin homology
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C;Species: Homo sapiens (man)
C;Date: 20-Oct-1994 #sequence_revision 26-Jul-1996 #text_change 17-Mar-1999
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YYYYGMDV 17
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Pred. No. 0.42
2; Mismatches
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   A;Status: preliminary A;Molecule type: mRNA
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Query Match

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Eur. J. Immunol. 22, 241-245, 1992
A;Title: The human cord blood antibody repertoire. Frequent usage of the V(H)7 gene A;Reference number: S26786; MUID:92111632; PMID:1730251
A;Stratus. S26793
A;Stratus. S26793
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A;Accession: PH1355
A;Molecule type: DNA
A;Residues: 1-27 <WAS>
A;Cross-references: UNIPARC:UPI0000176945
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G. J. Exp. Med. 176, 1577-1581, 1992
A;Title: Predominance of fetal type DJH joining in young children with B precursor lympho A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1371
                                                                                          Ig heavy chain V region - human
C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change
C;Accession: S26793
C;Accession: S26793
R;Mortari, F; Newton, J.A.; Wang, J.Y.; Schroeder Jr., H.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ig heavy chain DJ region (clone Cl11-145) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C;Accession: PH1371
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C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change
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C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
                                                                                                                                                                                                                          RESULT 13
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Ig heavy chain DJ region (clone C100-136) - human (fragment)
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A; Residues: 1-27 <WAS>
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Pred. No. 0.5;
2; Mismatches
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Pred. No. 0.5;
2; Mismatches
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2; Mismatches
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RESULT 15
PH0961
Ig heavy chain V region (G6+ T-L33) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0961
R;Martin, T;, Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0961
A;Accession: PH0961
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                                                                                                                                               F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-107/Region: complementarity-determining:
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If heavy chain V region (clone 6C9) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 16-Aug-1996
C;Accession: PH1666
C;Accession: J.L.; Karr, N.S.; Oppliger, I.R.; Mannik, M.; Sasso, E.H.
J. Exp. Med. 178, 331-336, 1993
A;Title: The structural basis of germline-encoded VH3 immunoglobulin binding to staphyld A;Reference number: PH1642; MUID:93301610; PMID:8315388
A;Accession: PH1666
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A;Cross-references: UNIPARC:UPI0000115FCA; EMBL:X61019; NID:g32787; PIDN:CAA43353.1; PIE
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
                                                                                                                                                                                                                                                                                           A;Cross-references: UNIPARC:UPI0000176CE5
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Experimental source: B cell C; Superfamily: immunoglobulin V region; immunoglobulin homology C; Keywords: heterotetramer; immunoglobulin
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A;Residues: 1-118 <HIL>
A;Cross-references: UNIPARC:UPI0000176BE7
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F;15-98/Domain: immunoglobulin homology <IMM>
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YYYFGLDV 11
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                                                                  Conservative
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75.0%;
                                                                                 70.0%; Score 42; DB 75.0%; Pred. No. 2.2;
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Pred. No. 2.2;
2; Mismatches
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Pred. No. 1.4;
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                                                                  Mismatches
                                                                                                       DB 2; Length 119;
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Db 101 YYYYGMDV 108

Search completed: December 4, 2005, 04:53:32 Job time : 17.5833 secs

Copyright

GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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seq length: 2000000000
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60
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UniProt_05.80:*
1: uniprot_sprot:*
2: uniprot_trembl:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	, 6	, Si	1. 2. 4. 1.		ď	The Contract of	No.	Result
39	39	39	9	39	39	39	39.5	40	40	40	40	40	40	40	40	41	42	42	42	42	42	42	42	42	42	43	43	43	44	44	Score	
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Q6zbx7 oryza sativ		082700 medicago tr	Q9kdv6 bacillus ha	Q97bk3 thermoplasm		Q52g31 magnaporthe	Q9kf49 bacillus ha		Q6weq5 arabidopsis		Q8c3x8 mus musculu	Q8eu78 oceanobacil	Q6d0z3 erwinia car	Q4zub1 pseudomonas	Q6f6n6 acinetobact	Q6aqz1 desulfotale	Q4fwx4 leishmania	_	Q6gmy2 homo sapien	Q74n07 nanoarchaeu	Q89nt9 bradyrhizob	Q4qa10 leishmania	Q7wkh1 bordetella	Q7w926 bordetella	Q7vy71 bordetella	067072 aquifex aeo	Q660f6 borrelia ga	O51659 borrelia bu	Q4ufy8 theileria a	Q4n9v2 theileria p	Description	

NUCLEOTIDE SEQUENCE.

STRAIN-Muguga;
Gardner M., Bishop R., Shah T., de Villiers B., Carlton J.M., Hall N.,
Ren O., Paulsen I.T., Pain A., Berriman M., Wilson R.J.M., Sato S.,
Ralph S.A., Mann D.J., Xiong Z., Shallom S.J., Weidman J., Jiang L.,
Lynn J., Weaver B., Shoaibi A., Wasawo D., Crabtree J., Wortman J.R.,
Haas B., Angiuoli S., Creasy T.H., Lu C., Suh B., Silva J.C.,
Utterback T., Feldblyum T., Pertea M., Allen J., Taracha E.L.,
Salzberg S.L., White O., Fitzhugh H.A., Morzaria S., Venter J.C.,
Fraser C.M., Nene V.;
Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases
-!- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is

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Query Match
Best Local Similarity
Matches 7; Conserv

Conservative

73.3%; Score 44; DB 2; Length 1348; 87.5%; Pred. No. 60; tive 1; Mismatches 0; Indels

0;

Gaps

0,

155635 MW; 474C3A40C23E8C5F CRC64;

preliminary data.

EMBL; AAGK01000001; EAN33265.1; -; Genomic_DNA.
Hypothetical protein.
SEQUENCE 1348 AA; 155635 MW; 474C3A40C23E8C

O6zbx6 oryza sat O6pts homo sapi O8pts lactobaci O8pts lactobaci O8ts lactobaci O8ts lactobaci O24388 drosophil O45pts dandhelmi O7vgh6 candidatu O7vgh6 candidatu O7vgh6 candidatu O5zx64 legionell O5x093 legionell O5x093 legionell O5x093 regionell O6x093 rhodopseu O8tvt5 methanopy O9xttl caenorhab update) update) n update) n update) n update) amida; Theileriidae; ers E.P., Carlton J.M., Firiman M., Wilson R.J.M., Shallom S.J., Weidman J., Wasawo D., Crabtree J., Petrea M., Allen J., Petrea M., Allen J., Petrea M., Allen J., Pitzhugh H.A., Morzaria S.,

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59 BORBU
O51659 BORBU PRELIMINARY; PRT; 160 AA.
O51659;
O1-UN-1998 (TrEMBLrel. 06, Created)
O1-UN-1998 (TrEMBLrel. 06, Last sequence update)
O1-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Conserved hypothetical integral membrane protein.
                                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Praser C.M., Casjens S., Huang W.M., Sutton G.G., Clayton R.A., Lathigra R., White O., Ketchum K.A., Dodson R.J., Hickey B.K., Gwinn M.L., Dougherty B.A., Tomb J.-F., Pleischmann R.D., Richardson D.L., Peterson J.D., Kerlavage A.R., Quackenbush J., Salzberg S.L., Hanson M., van Vugt R., Palmer N., Adams M.D., Gocayne J.D., Weidman J.F., Utterback T.R., Watthey L., McDonald L.A., Artiach P., Bowman C., Garland S.A., Fujii C., Cotton M.D., Horst K., Roberts K.M., Hatch B., Smith H.O., Venter J.C.;
"Genomic sequence of a Lyme disease spirochaete, Borrelia ""Genomic sequence of a Lyme disease spirochaete, Borrelia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE.
STRAIN-ATCC 35210 / B31;
MEDLINE-98065943; PubMed=9403685; DOI=10.1038/37551;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OrderedLocusNames=BB0717;
Borrella burgdorferi (Lyme disease spirochete).
Bacteria, Spirochaetes, Spirochaetales; Spiroch
Borrella burgdorferi group.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "The chromosome 1 sequence of Theileria annulata.";
Submitted (APR-2005) to the EMBL/GenBank/DDBJ datab
EMBL; CR940347; CAIT4001.1; -; Genomic_DNA.
Hypothetical protein.
Hypothetical protein.
Hypothetical protein.
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13-SEP-2005 (TrEMBLrel.
13-SEP-2005 (TrEMBLrel.
13-SEP-2005 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                            Nature 390:580-586(1997).

EMBL; AB001171; AAC67057.1; -; Genomic_DNA
PIR; D70189; D70189.
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Hall N., Barrell B.G.;
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Eukaryota, Alveolata,
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160 AA; 19300 MW; 9
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31,
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                                                                                                          Score 43;
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Pred. No.
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9DE28A497C0F5737 CRC64;
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RESULT 5
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ID O67072 AQUAE
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Query Match
Best Local S
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Complete proteome; Hypothetical protein.

COMPLETE 160 AA; 19293 MW; B65B15C5197BFB89 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Conserved hypothetical integral membrane protein.
OrderedLocusNames=BG0739;
                                                                                                                                                 Pfam; PF00999; Na H
Complete proteome; T
SEQUENCE 408 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=98196666; PubMed=9537320; DOI=10.1038/32831; Deckert G., Warren P.V., Gasterland T., Young W.G., Lenox A.L., Graham D.E., Overbeek R., Snead M.A., Keller M. Aujay M., Huber Feldman R.A., Short J.M., Olsen G.J., Swanson R.V.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Na(+)/H(+) antiporter.
Name=napA2; OrderedLocusNames=AQ_929;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-AUG-1998 (TrEMBLrel. 07,
01-AUG-1998 (TrEMBLrel. 07,
01-JUN-2003 (TrEMBLrel. 24,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         067072
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q660F6_BORGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; AE000714; AAC07034.1; -; Genomic_DNA.
PIR; E70380; E70380.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aquifex aeolicus.
Bacteria; Aquificae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN-PBi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nature 392:353-358(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         aeolicus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Feldman R.A., Short J.M., Olsen G.J., Swanson R.V.; "The complete genome of the hyperthermophilic bacte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=VF5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=63363;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE.
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                                                                                                                                                                                                                                                           GO:0016021; C:integral to membrane; IBA. GO:0015299; F:solute:hydrogen antiporter GO:0006885; P:regulation of pH; IEA. GO:0006810; P:transport; IEA. GO:0006810; P:transport; IEA.
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Similarity 6; Conserv
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71.7%;
nilarity 54.5%;
Conservative
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                                                                                                                                                     Exchanger; 1.
Transmembrane; Transport.
43582 MW; 7E05B4B387A6C506 CRC64;
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Last sequence update)
Last annotation updat
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   Score 43; DB
Pred. No. 28;
4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRT;
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                                                                          Length 408;
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RESULT 7
Q7W926
ID Q7W926
ID Q7W9
AC Q7W9
D7 01-C
D7 01-C
D7 01-B
D6 Puta
BOxC
OC Bact
OC Bact
OC Alcc
OC Alcc
OC Alcc
OC MCBI
RN NUCL
RP NUCL
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RA PALED
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RX MEDLINE-22827954; PubMed-12910271; DOI-10.1038/ng1227;

RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,

RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,

RA Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Squares P., Squares S., Stevens K.,

RA Feltwell T., Whole S., Norberczak H., O'Neil S., Ormond D., Price C.,

RA Fabbinowitsch E., Rutter S., Sanders M., Squares S., Stevens K.,

RA Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K.,

RA Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K.,

RA Whitehead S., Barrell B.G., Maskell D.J.;

"Comparative analysis of the genome sequences of Bordetella pertussis,

RT Mat. Genet. 35:32-40(2003).

RA EMBL; BX640415; CAB41776.1; -; Genomic DNA.

BY GO:0030289; C:periplasmic space (sensu Gram-negative Bact. . .; IEA.

BO; GO:0030289; C:periplasmic space (sensu Gram-negative Bact. . .; IEA.

BO; GO:0030480; C:periplasmic space (sensu Gram-negative Bact. . .; IEA.

BOR GO; GO:0006810; P:transport; IEA.

BOR GO:0006810; SBP bac_7; 1.

BOR Complete Drotesome.

RW Complete Drotesome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
NUCLEOTIDE SEQUENCE.
STRAIN=12822 / ATCC BAA-587;
STRAIN=22827954; PubMed=12910271; DOI=10.1038/ng1227;
MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;
MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-OCT-2003 (TrEMBLrel. 25, Created)
01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Putative periplasmic solute-binding protein.
Name=smoM; OrderedLocusNames=BP1487;
                                                                                                                                                                                         01-OCT-2003 (TrEMBLrel. 25, Created)
01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Putative periplasmic solute-binding protein.
Name=smoM; OrderedLocusNames=BPP1948;
                                                                                                                                                    Bordetella parapertussis.
Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                           Q7W926;
01-OCT-2003
                                                                                                                                                                                                                                                                                                              Q7W926_BORPA PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Complete
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Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
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                                                                                                                                 Alcaligenaceae;
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                                                                                                                                                                                                                                                                                                                                                                                                                    86
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364 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                      ASYYYFGKD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                     Bordetella.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 40021 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         70.0%;
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                                                                                                                                                      Betaproteobacteria; Burkholderiales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 42; DB:
Pred. No. 38;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>بر</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB
38;
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RESULT 8
Q7WGH1 BORBR
Q7WGH1;
AC ACCOLOCUS BOTCH COLOCUS ANA S88;
AC ACALIGEDIDE SEQUENCE.
AC ACCALIGED ATCC BAA-588;
AC ACCALIGED ATCCALIGED 
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DR EMBL, BX640428; CAE37248.1; -; Genomic_DNA.
GG, GO:0006810; Pttransport; IEA.
RI InterPro; IPR006311: Tat
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RX MEDLINE-2827954; pubMed=12910271; DOI=10.1038/ng1227;

RX MEDLINE-2827954; pubMed=12910271; DOI=10.1038/ng1227;

RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,

RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,

RA Harris D., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,

RA Crideno-Tarraga A.-M., Temple L., James K.D., Harris B., Quail M.A.,

RA Achtman M., Arkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Horoyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Horoyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., O'Neil S., Jagels K.,

RA Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,

RA Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,

RA Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,

RA Rabbinowitsch E., Barrell B.G., Maskell D.J.;

RA Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;

RA Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;

RT "Comparative analysis of the genome sequences of Bordetella pertussis,

RT Nat. Genet. 35:32-40(2003).

RD Markin B. RAMALARA CARAZAG2.1: -: Genomic DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local
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01-OCT-2003 (TrEMBLrel. 25, Last sequence up
01-MAR-2004 (TrEMBLrel. 26, Last annotation
Putative periplasmic solute-binding protein.
Name=smoM; OrderedLocusNames=BB2136;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Complete
SEQUENCE
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InterPro; IPR006311; Tat.
InterPro; IPR004682; TRAP_transptDctP.
InterPro; IPR04682; TRAP_transptDctP.
InterPro; IPR04682; TRAP_transptDctP.
                                                                                     30; GO: OUVOULL, 11 Tat.
InterPro; IPR006311; Tat.
InterPro; IPR004682; TRAP_transptDctP.
TRAP_transptDctP.
TRAP_11.
                                                                                                                                                                                                           EMBL; BX640443; CAE32632.1; -; Genomic GO; GO:0030288; C:periplasmic space (se GO; GO:0006810; P:transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bordetella bronchiseptica (Alcaligenes bronchisepticus)
Bacteria; Proteobacteria; Betaproteobacteria; Burkholde
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pfam; PF03480; SBP bac 7; 1.
TIGRFAMs; TIGR01409; TAT_signal_seq;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98
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              39997 MW; 8AB6672BA3BF09AD CRC64;
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                                                                   TAT_signal_seq;
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Pred. No. 38;
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Query Match Best Local Similarity

70.0**%;** 77.8**%**;

Score 42; Pred. No.

38;

2

Length 364;

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OC DE HUDDY 111 DY 111 
QBULT QBUT9
ID NT9
ID NT9
ID O11
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Best Local
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                                                   "Complete genomic sequence of nitrogen-fixing sy Bradyrhizobium japonicum USDA110.";
DNA Res. 9:189-197(2002).
EMBL; BA000040; BAC49010.1; -; Genomic DNA.
GO; GO:0030288; C:periplasmic space (sensu Gram-gO; GO:0006810; P:transport; IEA.
InterPro; IPR006311; Tat.
InterPro; IPR006311; Tat.
InterPro; IPR004682; TRAP transptDctP.
Pfam; PF03480; SBP bac 7; 1.
TIGRFAM6; TIGR01409; TAT signal seq; 1.
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Q4QA10;
13-SBP-2005
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Peascock C.S., Murphy L., Ivens A.C., Berriman M., Blackwell J.,
Smith D., Collins M., Fosker N., Harris D., Oliver K., O'Neil S.,
Saunders D., Seeger K., Warren T., Rajandream M., and Barrell B.G.;
Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; CT005264; CAJ04989.1; -; Genomic DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bradyrhizobium japonicum.
Bacteria, Proteobacteria, Alphaproteobacteria, Rhizobiales,
Bradyrhizobiaceae, Bradyrhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=22484998; PubMed=12597275; Minamisawa R
Kaneko T., Nakamura Y., Sato S., Minamisawa R
Sasamoto S., Watanabe A., Idesawa K., Iriguch
Kohara M., Matsumoto M., Shimpo S., Tsuruoka
Tabata S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE
STRAIN=USDA 110;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JUN-2003 (TREMBLrel. 24, I
01-OCT 2003 (TREMBLrel. 25, I
Periplasmic mannitol-binding
OrderedLocusNames-blr3745;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hypothetical SEQUENCE 3
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Eukaryota; Euglenozoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hypothetical protein. ORFNames=LmjF25.0840;
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BRAJA
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7; Conserve
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378 AA; 4
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   42090 MW;
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31,
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Last sequence update)
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23C264980A9F9B8D CRC64;
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Iriguchi M., Kawashima K.,
muruoka H., Wada T., Yamada
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Matches 7
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SEQUENCE
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Archaea; Nanoarchaeota; Nanoarchaeum
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Butheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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Best Local &
Matches
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR003599; Ig.
InterPro; IPR007110; Ig-like.
InterPro; IPR003597; Ig_c1.
InterPro; IPR003597; Ig_MHC.
InterPro; IPR003596; Ig_WC.
InterPro; IPR003596; Ig_v.
Pfam; PF07654; C1-set; 4.
SMART; SM00409; IG; 2.
SMART; SM00406; IGv; 1.
SMART; SM00406; IGv; 1.
                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE.

STRAIN-JCM 10545 / 7;

MEDLINE-21456156; PubMed=11572479;

MEDLINE-21456156; PubMed=11572479;

Kawarabayasi Y., Hino Y., Horikawa H., Jin-no K., Takahashi M., Kawarabayasi Y., Hino Y., Horikawa H., Hosoyama A., Fukui S., Sekine M., Baba S.-I., Ankai A., Kosuqi H., Hosoyama A., Fukui S., Nagai Y., Nishijima K., Otsuka R., Nakazawa H., Takamiya M., Kato )

Yoshizawa T., Tanaka T., Kudoh Y., Yamazaki J., Kushida N., Oguchi Aoki K.-I., Masuda S., Yanagii M., Nishimura M., Yamagishi A., Oshima T., Kikuchi H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-QCT-2003 (TrEMBLrel. 25, Last annotation update)
1062aa long hypothetical thermopsin.
OrderedLocusNames-ST2615;
sulfolobus tokodaii.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97 SULTO PRELIMINARY;
Q96X97;
Q96X97;
01-DEC-2001 (TrEMBLrel. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.B., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length
                                                                                                           Pfam; PF05317; Thermopsin; 1. Complete proteome; Hypothetical protein.
SEQUENCE 1062 AA; 118024 MW; 166F4ED60A040DB4 CRC64;
                                                                                                                                                                                                                                                                                                                                                    "Complete genome sequence of an aerobic thermoacidophilic Crenarchaeon, Sulfolobus tokodaii strain7.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted
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                                                                                                                                                                                                                                                                                                                       DNA Res. 8:123-140(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE=Primary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TaxID=111955;
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                                                                                                                                                                                                                                                                             BA000023; BAB67731.1; -; Genomic_DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4
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P800290; IG_MHC; UNKNOWN_3.
606 AA; 66185 MW; B6B38B51114E4C55 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YYYYGMDV
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                                                                                                                                                                                                                            IPR007981; Peptidase_A5.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .K., Muzny D.M.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11
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75.0%;
    100.0%;
                                     70.0%;
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man M., Madan A., Rodrigues S., Sanchez A.,
A.C., Shevchenko Y., Bouffard G.G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 42; DB Pred. No. 63; 2; Mismatches
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Score 42;
Pred. No.
    DB 2; L
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                                     Length 1062;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Takamiya M., Kato Y
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RESULT
QAFWXA
ID FWXA
ID FWXA
ID OA
DT 13

RESULT 15
Q6AQZ1_DESPS
ID Q6AQZ1_D
AC Q6AQZ1_D
T 25-OCT-2
DT 25-OC
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I Tvens A.C., Peacock C.S., Worthey E.A., Murphy L., Aggarwal G.,
I Tvens A.C., Peacock C.S., Worthey E.A., Murphy L., Aggarwal G.,
A Berriman M., Sisk E., Rajandream M.A., Adlem E., Aert R., Anupama A.,
A Apostolou Z., Attipoe P., Bason N., Bauser C., Beck A., Beverley S.M.,
A Apostolou Z., Attipoe P., Bason N., Bauser C., Beck A., Beverley S.M.,
A Apostolou Z., Attipoe P., Bason N., Bauser C., Collins M.,
Cruz A.K.,
A Apostolou Z., Attipoe P., Bason N., Bauser C., W., Cronin A., Cruz A.K.,
A Cadag E., Ciarloni L., Clayton C., Coulson R.M., Cronin A., Cruz A.K.,
A Cadag E., Ciarloni L., Dobson D.E., Duesterhoeft A.,
A Davies R.M., De Gaudenzi J., Dobson D.E., Duesterhoeft A.,
A Pazelina G., Fosker N., Frasch A.C., Fraser A., Fuchs M., Gabel C.,
A Fazelina G., Fosker N., Frasch A.C., Fraser A., Fuchs M., Gabel C.,
A Goble A., Goffeau A., Harris D., Hertz-Fowler C., Hilbert H., Horn D.,
A Huang Y., Klages S., Knights A., Kube M., Larke N., Litvin L.,
A Huang Y., Klages S., Knights A., Kube M., Larke N., Litvin L.,
A Huang Y., Klages S., Knights A., Kube M., Larke N., Litvin L.,
A Huang Y., Klages S., Knights A., Kube M., Larke N., Michaeli S.,
A Mottram J.C., Muller-Auer S., Munden H., Nelson S., Norbertczak H.,
A Oliver K., O'Neil S., Pentony M., Pohl T.M., Price C., Purnelle B.,
A Quail M.A., Rabbinowitsch E., Reinhardt R., Rieger M., Rinta J.,
BA Robben J., Robertson L., Ruiz J.C., Rutter S., Saunders D.,
Schafer M., Schein J., Schwartz R., Smarres S., Tosato V. Voot C.,
Beverley S.M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
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13-SEP-2005
13-SEP-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                    QGAQZ1_DESPS PRELIMINARY;
QGAQZ1;
25-OCT-2004 (TrEMBLrel. 2
                                                                                                                                                                                                                                                                                                                                                 25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence up
25-OCT-2004 (TrEMBLrel. 28, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "The Genome of the Kinetoplastid Parasite, Leishmania major.";
Science 309:436-442(2005).
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NCBI_TaxID=5664;
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ORFNames=LMJ_1075;
                                                                                                                                                          Bacteria, Proteobacteria, Deltaproteobacteria,
Desulfobulbaceae, Desulfotalea.
                                                                                                                                                                                                                                                                                       Related to mercuric redu 
OrderedLocusNames=DP0504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hypothetical SEQUENCE 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE
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    NUCLEOTIDE SEQUENCE.
STRAIN=LSv54 / DSM 12343;
                                                                                                                                                                                                                                         Desulfotalea psychrophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; CP000081; AAZ14369.1; -; Genomic_DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Myler P.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Shin H., Sivam D., Squares R., Squares S., Tosato V., Vogt C., Volckaert G., Wambutt R., Warren T., Wedler H., Woodward J., Zhou Zimmermann W., Smith D.F., Blackwell J.M., Stuart K.D., Barrell B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=Friedlin;
                                                                                                                NCBI_TaxID=84980;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LEIMA
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Search completed: December 4, 2005, 04:52:20 Job time: 104.375 secs
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RA Rabus R., Ruepp A., Frickey T., Rattei T., Fartmann B., Stark M.,
RA Rabus R., Zibat A., Lombardot T., Becker I., Amann J., Gellner K.,
RA Tesling H., Leuschner W.D., Gloeckner F.-O., Lupas A.N., Amann R.,
RA Klenk H.-P.;
RI "The genome of Desulfotalea psychrophila, a sulfate-reducing bacterium
from permannently cold Arctic sediments ";
RL Environ. Microbiol. 6:887-902(2004).

REMBL; CR522870; CA635233.1; -; Genomic_DNA.
DR EMBL; CR522870; CA635233.1; -; Genomic_DNA.
GO; GO:0005137; Ccytoplasm; IEA.
DR GO; GO:0005138; F:disulfide oxidoreductase activity; IEA.
GO; GO:0005118; P:electron transport;
DR GO; GO:0015018; P:electron transport;
DR GO; GO:0015018; P:electron transport;
DR InterPro; IPR001127; FAD_pyr redox.
DR InterPro; IPR006162; Ppantne_S.
DR Ffam; PF00070; Pyr_redox_dim.
DR Pfam; PF00070; Pyr_redox_dim.
DR Pfam; PF00070; Pyr_redox_dim; 1.
PR PRINTS; PR00368; FAD_PNR.
DR PRINTS; PR00368; FAD_PNR.
DR PRINTS; PR00361; PNDDTASEI.
DR PRINTS; PR00361; PAD_PYR_redox_i.
DR PROSITE; PS000012; PHOSPHOPANTETHEINE; UNKNOWN_1.
DR PROSITE; PS000012; PHOSPHOPANTETHEINE; UNKNOWN_1.
DR Complete proteome.
SQUENCE 716 AA; 78725 MW; 68EFC0600DE44094 CRC64;
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1: /cgn2_6/ptodata/1,

2: /cgn2_6/ptodata/1,

3: /cgn2_6/ptodata/1,

4: /cgn2_6/ptodata/1,

5: /cgn2_6/ptodata/1,

6: /cgn2_6/ptodata/1,
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Listing first 45 summaries
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/cgn2 6/ptodata/1/iaa/6_COMB.pep:*
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US-08-055-83-280
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ALIGNMENTS

PATENT NO. 5661016 GENERAL INFORMATION: APPLICANT: Lonberg, Nils APPLICANT: Lonberg, Nils APPLICANT: Kay, Robert M. TITLE OF INVENTION: Transgenic No. 5661016-Human Animals for TITLE OF INVENTION: Transgenic No. 5661016-Human Animals for TITLE OF INVENTION: Producing Heterologous Antibodies NUMBER OF INVENTION: Producing Heterologous Antibodies NUMBER OF SEQUENCES: 197 CORRESPONDENCE ADDRESS: ADDRESSEE: Townsend and Townsend Khourie and Crew STREET: One Market plaza, Steuart Tower, Suite 200 CITY: San Francisco STATE: California COUNTRY: USA ZIP: 94105 COMPUTER: ENP Compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: READABLE FORM: MEDIUM TYPE: Ploppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US 07/990,860 PILING DATE: 26-APR-193 CLASSIFICATION NUMBER: US 07/990,860 PILING DATE: 16-DEC-1992 PI
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US-08-645-641-78
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US-07-853-408B-78
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Sequence 78, Application US/07853408B Patent No. 5789650

GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No
TITLE OF INVENTION: Producing Hete
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Matches 6; Conservative 3; Miamatal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.25
SOPTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/645,641
FILING DATE: 20-MAY-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-UN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-000913
TELECOMMUNICATION INFORMATION:
TELEPHNE: 415-326-2400
TELEPHNE: 415-326-2400
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Patent No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 71.7%;
Best Local Similarity 66.7%;
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Lonberg, Nils
APPLICANT: KAY, Robert M.
TITLE OF INVENTION: Transgenic No. 5719032-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
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                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: Two Embarcadero Center, 8th Floor CITY: San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: William M. Smith
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10 SYYYYGMDV 18
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Transgenic No. 5789650-Human Animals for Producing Heterologous Antibodies
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Pred. No. 1.6;
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/853,408B
FILING DATE: 19920318
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent No. 5814318
GENERAL INFORMATION:
APPLICANT: Lonber:
APPLICANT: Kay, Ro
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25
SOFTWARE: PATENTIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/096,762
PILING DATE: 22-UUL-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/053,131
PILING DATE: 26-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
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INFORMATION FOR SEQ ID NO:
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APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5814318-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 210
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew
STREET: One Market Plaza, Steuart Tower, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
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ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
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TELEPHONE: 415-326-2400
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MEDIUM TYPE: Floppy disk
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66.7%;
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FILING DATE: 16-DEC-PRIOR APPLICATION DATA:

16-DEC-1992

APPLICATION NUMBER: US 0' FILING DATE: 23-JUN-1992

US 07/904,068

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US-08-308-865-78
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APPLICATION NUMBER: US/08/145,707
FILING DATE:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-UN-1992
FILING DATE: 23-UN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-1-1
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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FILING DATE: 17-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAMB: Smith, William M.
REGISTRATION NUMBER: 30,223
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PRIOR PELICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5877397-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
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FILING DATE: 18-MAR-:
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 14
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE: CLASSIFICATION: 800
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TYPE: amino acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY:
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                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 07/810,279
FILING DATE: 17-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 01
FILING DATE: 22-JUL-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: IWO CITY: San Francisco
CITY: San Francisco
CTATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6255458-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
                                                                                                                                                                                                                                                                                                FILING DATE: 23-JUN-
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                               FILING DATE: 16-DEC-
PRIOR APPLICATION DATA:
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                                                               PRIOR APPLICATION DATA:
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                               APPLICATION NUMBER: FILING DATE: 10-DEC
                                                                               APPLICATION NUMBER: FILING DATE: 03-DE
                                                                                                                                APPLICATION NUMBER: FILING DATE: 18-NO
                                                                                                                                                                                                                                   FILING DATE:
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                                                                          UMBER: US 08/161,739
03-DEC-1993
                                                                                                                              UMBER: US 08/155,301
18-NOV-1993
                                                                                                                                                                                                                                                                                  16-DEC-1992
                                                                                                                                                                                                                                                                                                                                    23-JUN-1992
                            UMBER: US 08/165,699
10-DEC-1993
                                                                                                                                                                                                                              MBER: US 08/053,131
26-APR-1993
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66.7%;
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US 08/209,741
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Pred. No. 1
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US-08-758-417A-123
Sequence 123, Application US/08758417A; Patent No. 6300129; GENERAL INFORMATION:
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Best Local S
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 01-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 01.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEPAX: (415) 576-0300
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APPLICATION NUMBER: 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 10-OCT-: PRIOR APPLICATION DATA:
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APPLICATION NUMBER: U
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APPLICATION NUMBER: US 08/544,404
PILING DATE: 10-0CT-1995
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: L
FILING DATE: 07-DEC-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: WO PCT/US96/16433
FILING DATE: 10-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
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                                                   COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/758,417A
FILING DATE: 02-Dec-1996
CLASSIFICATION: <UNKnown>
                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 417
CORRESPONDENCE ADDRESS:
ADDRESSBE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                    Kay, Robe TITLE OF INVENTION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/728,463
FILING DATE: 10-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Lonberg, Nils
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                                                                                                                                                                                                                                        ZIP:
                                                                                                                                                                                                                                                                             CITY: San Francisco
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Robert M.
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MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 123:
US-08-758-417A-123
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GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic Non-Human Animals for TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local :
                                                                                                     ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Veri
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
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SEQUENCE CHARACTERISTICS:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Smith, william M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14
                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
                                                                                                                                                                                                                                                                                                                                       STREET:
                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                    CITY: San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 08/053,131
FILING DATE: 26-APR-193
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Serafini, Andrew T.
REGISTRATION NUMBER: 41,303
REFERENCE/DOCKET NUMBER: 014643-009030US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
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APPLICATION NUMBER: US 08/209,741
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APPLICATION NUMBER: US 08/165,699
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APPLICATION NUMBER: US 08/352,322
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                                                                                                                                                                                                                                                                                                    California
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APPLICATION NUMBER: US 08/161,739
                                                                                                                                                                                                                                                                                                                                         One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                 USA
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    14643-9-2
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Pred. No. 1.6;
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                                                                                                                                                               Version
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Gaps

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TELECOMMUNICATION INFORMATION:

TELEPHONE:

415-326-2400

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; LENGTH: 33 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US92-10983-78
                                                                                                                                                                         RESULT 10
US-09-497-625A-84
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US-09-840-459-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: PCT/US01/03537
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 2000-02-03
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/321,781
PRIOR APPLICATION NUMBER: 09/321,781
PRIOR FILING DATE: 1998-07-23
                                                   GENERAL INFORMATION:
APPLICANT: LaRosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 84
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                                                                                                                                   Sequence 84, Application US/09497625A Patent No. 6727349
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APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Keefe, Thereas
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: METHODS OF USE THEREFOR
FILE REFERENCE: 1855.1052-012
CURRENT APPLICATION NUMBER: US/09/840,459
CURRENT FILING DATE: 2001-02-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 107
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 415-326-2422 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: LaRosa, Gregory J.
                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH:
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                                                                                                                                                                                                                                                                                                                         Local Similarity 66.7%;
es 6; Conservative
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                                                                                                                                                                                                                                                   106 SYYYYGMDV 114
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Similarity 66.7%;
6; Conservative
Horvath, Christopher
Newman, Walter
Jones, S. Tarran
O'Brien, Siobhan H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/09840459
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Pred. No. 6.4;
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Pred. No.
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; TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
; TITLE OF INVENTION: METHODS OF USE THEREFOR
; FILE REFERENCE: 1855.1052-004
; CURRENT APPLICATION NUMBER: US/09/497,625A
; CURRENT FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: 09/359,193
; PRIOR FILING DATE: 1999-07-22
; PRIOR FILING DATE: 1999-07-23
; PRIOR FILING DATE: 1998-07-23
; NUMBER OF SEQ ID NOS: 106
; SOPTWARE: FASTSEQ for Windows Version 3.0
; SECTUME: 1985-07-25
; NUMBER: FASTSEQ FOR WINDOWS VERSION 3.0
; SECTUME: 1985-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 6; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: PRT ; ORGANISM: Homo sapiens US-09-497-625A-84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No.
                                                                                         TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5661016-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 197
CORRESPONDENCE DEDEESS:
                SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: SMIth, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-3
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: |
FILING DATE: 16-DEC-|
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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CITY: San Francisco
CTATE: California
                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: FILING DATE: 17-DEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/053,131 FILING DATE: 26-APR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
STRANDEDNESS:
                                                                                                                                  TELEPHONE:
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                                                                                                            415-326-2422
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                                                                                                                                      415-326-2400
                                                                                                                                                                                                                                                                                                                                          UMBER: US 07/810,279
17-DEC-1991
                                                                                                                                                                                                                                                                                                                                                                                                                16-DEC-1992
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Pred. No. 6.4;
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RESULT 13
US-07-853-408B-73
i Sequence 73, Application US/07853408B
; Patent No. 5789650
; Patent No. 5789650
; GENERAL INFORMATION:
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US-08-645-641-73
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Best Local &
                                                                                                                                                                                                                  Query Match
Best Local Similarity
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Patent No. 571903
                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 73:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5719032-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-UNN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-000913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
                                                                                                                                                                                                                                                                                            MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/0 FILING DATE: 20-MAY-1996 CLASSIFICATION: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               h 70.0%;
Similarity 75.0%;
6; Conservative
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Lonberg, Nils
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75.0%;
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Pred. No. 2.1;
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Pred. No. 2.
                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                           DB 1;
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Patent No. 5814318
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic N
TITLE OF INVENTION: Producing He
NUMBER OF SEQUENCES: 210
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
US-08-096-762-73
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 1464
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-226-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: AMINO ACID
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/853,408B
FILING DATE: 19920318
CLASSIFICATION: 800
CLASSIFICATION: 800
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TITLE OF INVENTION: Transgenic No. 5789650-Human Animals for TITLE OF INVENTION: Producing Heterologous Antibodies NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STEET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: peptide
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/096,762
FILING DATE: 22-JUL-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION UMBER: US 08/053,131
                                                                                                                                                                                      ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                            ADDRESSEE: Townsend and Townsend Khourie and Crew STREET: One Market Plaza, Steuart Tower, Suite 20 CITY: San Francisco
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                                                                                                                                                                                                                                                                            STATE:
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Local Similarity 75.0%;
es 6; Conservativo
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YYYYGMDV 14
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linear
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Pred. No. 2.
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1

US 07/990,860

FILING DATE:

26-APR-1993

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RESULT 15
US-08-308-865-73
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PALEORIUM DATA:
APPLICATION NUMBER: US/08/308,865
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/145,707
FILING DATE:
11.ING DATE:
APPLICATION NUMBER: US/08/145,707
FILING DATE: 23-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: SMICH, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-1-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 7
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 73, Application US/08308865 Patent No. 5877397
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Best Local Similarity 75.0%;
Matches 6; Conservative
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PRIOR APPLICATION NUMBER: US 07/853,408
APPLICATION NUMBER: US 07/853,408
FILLING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/810,279
FILLING DATE: 17-DEC-1991
ATTORNEY/AGENT INFORWATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-236-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Lonbert M.
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5877397-Human Animals for TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: One Market F
CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: UZIP: 94105
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YYYYGMDV 14
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IENGTH: 29 amino acids
TYPE: amino acid
TYPE: amino acid
TYPE: amino acid
TYPE: bingle
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-308-865-73
Search completed: December 4, 2005, 04:09:43 Job time : 24.6042 secs
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                                                                                                                         Matches
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acide
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                                                                                                               70.0%;
Local Similarity 75.0%;
tes 6; Conservative
                                                                                            4 YYYFGLDV 11
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YYYYGMDV 14
                                                                                                                       Score 42; DB 1; Pred. No. 2.1; 2; Mismatches
                                                                                                                                                      DB 1; Length 29;
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Result
No.
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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                                     US-10-632-706-126
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US-11-631-485-16
US-10-364-743-101
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US-10-452-593-15
US-11-031-485-16
US-11-031-485-16
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US-10-783-311-17
US-10-783-311-27
US-10-783-311-27
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US-10-041-860-31 US-10-041-860-325 US-10-041-860-325 US-10-665-383-42 US-10-665-383-42 US-10-946-6242-53 US-10-949-960A-2 US-10-92-088-10 US-10-364-743-16 US-10-364-743-109 US-10-452-593-16 US-10-452-593-16 US-10-452-593-110 US-10-452-593-110 US-10-452-593-110 US-10-452-593-110 US-10-452-593-110 US-10-473-287-34 US-10-473-287-34 US-10-473-287-63	ຫ	v	ຫ	s	σ	ហ	ហ	.4	4.	4.	.4	v	4.	4	4	.4	4
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ALIGNMENTS

RESULT 1 US-10-632-706-126

Sequence 126, Applic Publication No. US20 GENERAL INFORMATION

Application US/10632706 o. US20040175385A1

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US-10-632-706-126
             Sequence 127, Application US/10632706

Publication No. US20040175385A1

GENERAL INFORMATION:
APPLICANT: AMERS D. PETER
APPLICANT: AMERSDORFER, DETER
TITLE OF INVENTION: HERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: MEUROTOXINS
FILE REFERENCE: 407T-895120US
FULE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
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APPLICANT: AMERSDORFER, PETER
APPLICANT: AMERSDORFER, PETER
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR FILING DATE: 2002-08-01
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOOTWARE: PATENTIN VERBION 3.2
SEQ ID NO 126
LENGTH: 11
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Best Local S
Matches 11
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ORGANISM: Artificial
FEATURE:
APPLICATION NUMBER: US 09/144,806
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Pred. No. 0.0027;
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PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn version 3.2
SEQ ID NO 127
LENGTH: 11
TYPE: PRT
ORGANISM: Artificial
FEATURE:
FEATURE:
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US-11-031-485-116
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                                                                                                                                                                                                                                                                                                                                                                       US-10-364-743-101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/11/031,485
CURRENT FILING DATE: 2005-01-07
PRIOR APPLICATION NUMBER: 60/535,490
PRIOR FILING DATE: 2004-01-09
RUMBER OF SEQ ID NOS: 147
SOFTWARE: PATENTIN Ver. 3.3
SEQ ID NO 116
LENGTH: 122
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                                                                                                                                                                                                                                                                                                                             Sequence 101, Appublication No.
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Best Local (
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Publication No. US20050232917A1
               SOFTWARE: PatentIn version 3.2 SEQ ID NO 101
                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
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                                                                                                            APPLICANT: Frederickson, Shana
APPLICANT: Wild, Marcha A.
APPLICANT: Wally Marcha A.
APPLICANT: Marcyama, Toshiaki
APPLICANT: No. US20040009178Alan, Mary Jean
TITLE OF INVENTION: IMMUNOTHERAPEUTICS FOR BIODEFENSE
FILE REFERENCE: 84 (1087-73)
CURRENT APPLICATION NUMBER: US/10/364,743
CURRENT FILING DATE: 2003-02-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: PULLEN, NICHOLAS
APPLICANT: MOLLOY, ELIZABETH
APPLICANT: KELLERMANN, SIRID-AIMEE
APPLICANT: GREEN, LARRY L.
APPLICANT: HAAK-FRENDSCHO, MARY
                                                   PRIOR APPLICATION NUMBER: US 60/428,807
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: HAAK-FRENDSCHO, MARY TITLE OF INVENTION: ANTIBODIES TO MACCAM FILE REFERENCE: ABX-PF6
                                                                                                                                                                                                                                                                   APPLICANT: Bowdish, Katherine S. APPLICANT: Frederickson, Shana
LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity 63.6%; les 7; Conservative
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o. US20040009178A1
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Pred. No. 2.8;
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APPLICANT: Frederickson, Shana
APPLICANT: Wild, Martha A.
APPLICANT: Wild, Martha A.
APPLICANT: Wild, Martha A.
APPLICANT: No. US20040009178A1an, Mary Jean
TITLE OF INVENTION: IMMUNOTHERAPEUTICS FOR BIODEFENSE
FILE REFERENCE: 84 (1087-73)
CURRENT APPLICATION NUMBER: US/10/364,743
CURRENT FILING DATE: 2003-02-11
PRIOR APPLICATION NUMBER: US 60/428,807
PRIOR APPLICATION NUMBER: US 60/428,807
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 118
SOFTWARE: Patentin version 3.2
LENGTH: 134
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CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: US 10/364,743
PRIOR FILING DATE: 2003-02-11
PRIOR PELICATION NUMBER: US 60/356,086
PRIOR FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: US 60/376,408
PRIOR APPLICATION NUMBER: US 60/376,408
PRIOR FILING DATE: 2002-04-29
PRIOR PILING DATE: 2002-04-29
PRIOR PILING DATE: 2002-11-25
PRIOR PILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 118
SOFTWARE: Patentin version 3.2
SEQ ID NO 101
LENGTH: 129
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; ORGANISM: human
US-10-452-593-101
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; ORGANISM: human
US-10-364-743-101
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US-10-452-593-101
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Best Local S
Matches 7
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Best Local
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APPLICANT: Frederickson, Shana
APPLICANT: Wild, Martha A.
APPLICANT: Maruyama, Toshiaki
APPLICANT: Nolan, Mary Jean
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TITLE OF INVENTION: IMMUNOTHERAPEUTICS FOR BIODEFENSE
FILE REFERENCE: 98 CIP (1087-73 CIP)
                                                                                                                                                                                                                                                                                                APPLICANT: Bowdish, Katherine S
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Pred. No. 4.4;
2; Mismatches
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Pred. No. 4.4;
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US-11-031-485-56
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US-10-364-743-15
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US-10-452-593-15
                                                                                                             APPLICANT: MOLLOY, ELIZABETH
APPLICANT: KELLERMANN, SIRID-AIMEE
APPLICANT: GREEN, LARRY L.
APPLICANT: HAAK-FRENDSCHO, MARY
TITLE OF INVENTION: ANTIBODIES TO MACCAM
FILE REFERENCE: ABX-PF6
CURRENT APPLICATION NUMBER: US/11/031,485
CURRENT FILING DATE: 2005-01-07
PRIOR APPLICATION NUMBER: 60/535,490
PRIOR APPLICATION NUMBER: 60/535,490
PRIOR FILING DATE: 2004-01-09
                                                                                                                                                                                                                                             APPLICANT: PULLEN,
APPLICANT: MOLLOY,
APPLICANT: KELLER,
APPLICANT: GREEN,
                                                                                                                                                                                                                                                                                                                       Sequence 56, Applica Publication No. US20 GENERAL INFORMATION:
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Best-Local Similarity 77.8%;
Matches 7; Conservative
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PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 118
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PRIOR FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: US 60/376,408
PRIOR FILING DATE: 2002-04-29
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CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: US 10/364,743
PRIOR FILING DATE: 2003-02-11
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                                                          SOFTWARE: PatentIn Ver. 3.3
EQ ID NO 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: IMMUNOTHERAPEUTICS FOR BIODEFENSE FILE REFERENCE: 98 CIP (1087-73 CIP)
                                                                                             NUMBER OF SEQ ID NOS: 147
LENGTH: 468
TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                           Application US/11031485
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77.8%;
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Pred. No. 4.5;
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Pred. No. 4.5;
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US-11-031-485-18
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                                                                                          ; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-114
Query Match
Best Local Similarity 70.0
Conservative
                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn version 3.2
SEQ ID NO 114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 18
LENGTH: 469
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Matches 7; Conserv
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                                                                                                                                                                                                                                             APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, JAMES D.
APPLICANT: AMERSDORFER, PETER
APPLICANT: AMERSDORFER, PETER
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
TILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR PILING DATE: 2002-08-01
PRIOR PILING DATE: 2002-08-01
PRIOR FILING DATE: 2002-08-01
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APPLICANT: MOLLOY, ELIZABET
APPLICANT: KELLERMANN, SIRT
APPLICANT: GREEN, LARRY L.
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                                                                                                                                       TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                              FEATURE:
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KELLERMANN, SIRID-AIMEE
GREEN, LARRY L.
HAAK-FRENDSCHO, MARY
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77.8%;
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77.8%;
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70.0%;
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Pred. No.
                       Score 46; DB 4; Length 13;
Pred. No. 0.64;
2; Mismatches 1; Indels
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APPLICANT: Hogan, Shannon
TITLE OF INVENTION: PAPP-A LIGANDS
FILE REFERENCE: 10280-059001
CURRENT APPLICATION NUMBER: US/10/783,311
CURRENT FILING DATE: 2004-02-19
PRIOR APPLICATION NUMBER: 08-04/48,515
PRIOR FILING DATE: 2003-02-19
NUMBER OF SEQ ID NOS: 394
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 135
LENGTH: 140
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APPLICANT: Hogan, Shannon
ITITLE OF INVENTION: PAPP-A LIGANDS
FILE REFERENCE: 10280-059001
CURRENT APPLICATION NUMBER: US/10/783,311
CURRENT FILING DATE: 2004-02-19
PRIOR APPLICATION NUMBER: US 60/448,515
PRIOR PILING DATE: 2003-02-19
INDRES OF SEQ ID NOS: 394
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 141
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US-10-783-311-135
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Best Local Similarity
7, Conserva
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           RESULT 13
US-10-783-311-277
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                                                                                                                              Query Match
Best Local Similarity
Thes 7; Conserve
                                                                                                                                                                                                             OTHER INFORMATION: Heavy Chain amino acid sequence
US-10-783-311-135
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US-10-783-311-141
Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 135, Application US/10783311
Publication No. US20050009136A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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TYPE: PRT
ORGANISM: Artificial Sequence
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OTHER INFORMATION: Heavy Chain amino acid sequence
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                                                                                                                                                                                                                                                                              TYPE: PRT
                                                                               109 LGNYYYYGMDV 119
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277, Application US/10783311
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63.6%;
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63.6%;
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Pred. No.
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Pred. No. 6.9;
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APPLICANT: Nixon, Andrew
APPLICANT: Hogan, Shannon
ITITLE OF INVENTION: PAPP-A LIGANDS
FILE REFERENCE: 10280-059001
CURRENT PAPPLICATION NUMBER: US/10/783,311
CURRENT FILING DATE: 2004-02-19
PRIOR APPLICATION NUMBER: US 60/448,515
PRIOR FILING DATE: 2003-02-19
NUMBER OF SEQ ID NOS: 394
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 277
RESULT 15
US-10-293-418-3068
Sequence 3068, Application US/10293418
Publication No. US20030223996A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that In
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PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3068
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Best Local Similarity
Matches 7; Conserv
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GENERAL INFORMATION:
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TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PFS23
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR FILING DATE: 2000-06-15
PRIOR FILING DATE: 2000-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/240,816
PRIOR PILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
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ORGANISM: Artificial Sequence
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Local Similarity 70.0%;
les 7; Conservative
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Antibodies that Immunospecifically Bind BLyS
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Pred. No. 1.5;
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CURRENT APPLICATION NUMBER: US/10/293,418
CURRENT FILING DATE: 2002-11-27
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR RPILING DATE: 2001-11-16
PRIOR PILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR FILING DATE: 2001-06-15
PRIOR PILING DATE: 2001-06-15
PRIOR PILING DATE: 2001-05-25
PRIOR FILING DATE: 2001-05-25
PRIOR FILING DATE: 2001-03-21
PRIOR PILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/270,379
PRIOR RILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR PILING DATE: 2001-03-16
PRIOR PILING DATE: 2001-03-16
PRIOR PILING DATE: 2001-03-16
PRIOR PILING DATE: 2000-06-16
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PRIOR FILING DATE: 2000-06-16
Search completed: December 4, 2005, 04:37:28
Job time: 80.8333 secs
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

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Post-processing: Minimum Match 0%
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Listing first 45 summaries
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Maximum DB seq length: 200000000
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Published Applications AA New:*

1: /cgn2 6/ptodata/1/pubpaa/US09 NEW PUB.pep:*

2: /cgn2-6/ptodata/1/pubpaa/US07 NEW PUB.pep:*

3: /cgn2-6/ptodata/1/pubpaa/US07 NEW PUB.pep:*

4: /cgn2-6/ptodata/1/pubpaa/US08 NEW PUB.pep:*

5: /cgn2-6/ptodata/1/pubpaa/US10 NEW PUB.pep:*

6: /cgn2-6/ptodata/1/pubpaa/US11_NEW PUB.pep:*

7: /cgn2-6/ptodata/1/pubpaa/US11_NEW PUB.pep:*

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1 LATYYYFGLDV 11
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16.417 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 2

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Db Qy	Query Match Best Local Matches	; Kemaining ; NUMBER OF ; SEQ ID NO 3 ; LENGTH: 2 ; TYPE: PRT ; ORGANISM: US-11-054-515	PRIOR E PRIOR A PRIOR A PRIOR E	PRIOR A. PRIOR A. PRIOR A. PRIOR A. PRIOR A. PRIOR A.	CURRENT CURREN	RESULT 1 US-11-054-515- () Sequence 306 () Publication () GENERAL INFC () APPLICANT: () FILE REFERE	4444 5 5	
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US-11-054-515-1600

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1600
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 1600
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Best Local
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TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
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PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
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CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
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TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
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PRIOR FILING DATE: 2001-06-15
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APPLICATION NUMBER: 60/331,469
APPLICATION NUMBER: 60/331,469
APPLICATION NUMBER: 60/340,817
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APPLICATION NUMBER: 09/880,748
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FILING DATE: 2001-12-19
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                                                                                                                                                                                                                         APPLICATION NUMBER: 10/293,418
APPLICATION NUMBER: 60/277,379 FILING DATE: 2001-03-21
                                      APPLICATION NUMBER: 60/293,499 FILING DATE: 2001-05-25
                                                                              FILING DATE: 2001-06-
                                                                                                                                          APPLICATION NUMBER: 60/340,817
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Similarity 70.0%;
7; Conservation
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Pred. No. 0.19;
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US-11-054-515-2129
RESULT 5
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US-11-054-515-2876
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CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR PILING DATE: 2004-06-18
PRIOR PILING DATE: 2002-11-14
PRIOR PILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2002-11-16
PRIOR FILING DATE: 2002-11-16
PRIOR FILING DATE: 2002-11-16
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PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 2129
LENGTH: 16
TYPE: PRT
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LENGTH: 17
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Publication No. US20050255532A1
                                                                                                                                                            Query Match
Best Local
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Best Local
                                                                                                                                     Matches
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TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
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PRIOR APPLICATION NUMBER: 60/
PRIOR FILING DATE: 2001-03-21
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                                                          LTGYYYYGMDV 17
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milarity 63.6%;
Conservative
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63.6%;
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Pred. No. 0.
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Pred. No. 0.
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US-11-054-515-1431
; Sequence 1431, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:

APPLICANT: Ruben et

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RESULT 6
US-11-054-515-3
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US-11-054-515-1431
                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILLING DATE: 2004-02-11
PRIOR PELLORITION NUMBER: 60/580,347
PRIOR FILLING DATE: 2004-06-18
PRIOR PELLORITION NUMBER: 10/293,418
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILLING DATE: 2002-11-14
PRIOR PELLORITION NUMBER: 60/331,469
PRIOR FILLING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR FILLING DATE: 2001-12-19
PRIOR FILLING DATE: 2001-12-19
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 1431
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Publication No. US20050255532A1
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CURRENT FILING DATE: 2005-02-10
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TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
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PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
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PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
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PRIOR FILING DATE: 2000-10-17
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CURRENT FILING DATE: 2005-02-10
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TYPE: PRT
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                                                                                                     APPLICATION NUMBER: 60/293,499
FILING DATE: 2001-05-25
APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
APPLICATION NUMBER: 60/276,248
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APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
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Application data removed - See File Wrapper or PALM. NOS: 3247
                                                                                       2001-03-16
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Pred. No. 0.28;
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                                                                                                       US-11-054-515-870; Sequence 870, Applic; Publication No. US20; GENERAL INFORMATION:
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PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR APPLICATION NUMBER: 60/340,817
PRIOR FILING DATE: 2001-12-19
PRIOR FILING DATE: 2001-12-19
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 818
LENGTH: 254
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LENGTH: 254
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APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
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PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
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CURRENT FILING DATE: 2005-02-10
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                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
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Local Similarity 63.6%;
hes 7; Conservative
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7; Conserv
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o. US20050255532A1
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5. US20050255532A1
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Pred. No. 0.
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Pred. No. 0
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Remaining Prior Application data removed NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 870
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NAME/KEY: Site
LOCATION: (42)
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TYPE: PRT
ORGANISM: Homo sapiens
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                                                  LOCATION: (235)
OTHER INFORMATION:
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LOCATION: (70)
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OTHER INFORMATION:
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LOCATION: (57)
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NAME/KBY: Site
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LOCATION: (170)
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OTHER INFORMATION:
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OTHER INFORMATION:
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LOCATION: (176)
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APPLICATION NUMBER: 09/880,748
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FILING DATE: 2001-11-16
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APPLICATION NUMBER: 60/580,347
FILING DATE: 2004-06-18
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 INFORMATION:
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(192)
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; FEATURE:
; NAME/KEY: Site
; LOCATION: (240)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-054-515-870
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Best Local Similarity
Thehes 7; Conserve
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US-11-054-515-1287
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US-11-054-515-1287
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CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
Sequence 1288, Application US/11054515
Publication No. US2005025532A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT APPLICATION NUMBER: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 1287
LENGTH: 254
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Best Local (
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Publication No. US20050255532A1
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PRIOR FILING DATE: 2000-10-17
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PRIOR APPLICATION NUMBER: 09/880,748
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Similarity 63.6%;
7; Conservative
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Pred. No. 0.28;
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Pred. No. 0.
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; LENGTH: 306
; TYPE: PRT
; ORGANISM: Methanococcus jannaschii
US-11-017-550-47
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US-11-017-550-47
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US-11-054-515-1288
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SEQ ID NO 1288
LENGTH: 254
TYPE: PRT
                                                                                                                                    SEQ ID NO 47
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Query Match
Best Local Similarity
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APPLICANT:
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CURRENT FILING DATE: 2004-12-17
PRIOR APPLICATION NUMBER: US/10/126,927
PRIOR FILING DATE: 2002-04-19
PRIOR PPLICATION NUMBER: US 60/285,030
PRIOR FILING DATE: 2001-04-19
PRIOR PILING DATE: 2001-04-19
PRIOR APPLICATION NUMBER: US 60/355,514
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                                                                                                                                                                                                                                                                                                                                    APPLICANT: Zhang, Zhiwen
TITLE OF INVENTION: In Vivo Incorporation of Unnatural Amino Acids
FILE REFERENCE: 54-000120US
                                                                                                                                                                    PRIOR FILING DATE: 2002-
NUMBER OF SEQ ID NOS: 79
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PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
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                                                                                                                                                      SOFTWARE: PatentIn version 3.1
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FILING DATE: 2001-11-16
APPLICATION NUMBER: 60/340,817
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FILING DATE: 2001-03-21
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APPLICATION NUMBER: 60/580,347
FILING DATE: 2004-06-18
APPLICATION NUMBER: 10/293,418
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Similarity 63.6%;
7; Conservative
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Liu, David R
Magliery, Thomas
Meggers, Eric L
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Santoro, Stephen W
Zhang, Zhiwen
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10. US20050250183A1
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                                                                                                                                                                                        2002-02-06
  71.7%;
77.8%;
Score 43;
Pred. No.
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Pred. No. 0.28;
2; Mismatches
  ; DB 7;
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                    Length 306;
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APPLICANT: NUMBER: 60/340,817

FITLE OF INVENTION: Antibodies that Immunospecifically Bind BLy;
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR APPLICATION NUMBER: 60/331,469
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PRIOR APPLICATION NUMBER: 60/331,469
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR APPLICATION NUMBER: 60/340,817
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Best Local Similarity
Matches 6; Conserve
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; Sequence 2817, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
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PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
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PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR FILING DATE: 2001-11-16
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CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
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Pred. No. 0.035;
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US-11-054-515-2817
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PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
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SEQ ID NO 2817
LENGTH: 17
TYPE: PRT
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Publication No. US20050255532A1
GENERAL INFORMATION:
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CURRENT FILING DATE: 2005-02-10
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APPLICATION NUMBER: 60/331,469
FILING DATE: 2001-11-16
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APPLICATION NUMBER: 09/880,748
FILING DATE: 2001-06-15
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APPLICATION NUMBER: 09/880,748
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                                                                                               Score 42; DB 7;
Pred. No. 0.051;
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; LENGTH: 19
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US-11-054-515-2899
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US-11-054-515-2899
Search completed: December 4, 2005, 04:37:48
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Best Local S
Matches 6
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PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-21
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Publication No. US20
GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 3247
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PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
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CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
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TITLE OF INVENTION: Ant
FILE REFERENCE: PF523P3
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PRIOR APPLICATION NUMBER: 60/340,817
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Pred. No. 0.051;
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Listing first 45 summaries
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SUMMARIES

Result No.	Score	% Query Match	Length	BB	ID	Description
1	66	100.0	11	<u>.</u>	ADR38726	Adr38726 Mouse hea
N	44	66.7	306	თ	553	Protein
w	44	66.7	367	σ	ABU47042	
4	44	66.7	367	σ	ABU47877	Abu47877 Protein e
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9	41	62.1	475	σ	ABU20453	Abu20453 Protein e
10	41	62.1	792	7	ADC07986	Adc07986 Rice prot
11	41	62.1	1352	4.	ABB67542	Abb67542 Drosophil
12	40	•	146	σ	ABP56656	Abp56656 Chimpanze
13	40	•	283	σ	ABM70292	Abm70292 Photorhab
14	40		477	æ	ADY22314	
15	40		885	w	AAG32050	
16	40	60.6	931	ω	AAG32049	
17	40	60.6	956	w	AAG32048	
18	39.5		511	œ	ADX89844	
19	39	59.1	79	ω	AAG13553	
20	39		103	w	AAG13552	
21	39	59.1	112	w	AAG13551	
22	39	59.1	166	4.	AAM06860	-
23	39	59.1	211	œ	ADM57065	Adm57065 A thalian
24	39	59.1	233	w	AAG05440	Aag05440 Arabidops

45	44	43	42	41	40	39	38	37	36	35	34	y y	32	31	30	29	28	27	26	25
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48	949	885	877	775	775	775	696	670	537	287	278	274	266	266	266	257	257	254	242	233
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AAM95055	AAG36911	AAG36912	AAG36913	ABM45273	ABM65954	AAU48754	ABG20404	ABU18890	ADT60469	AAG30759	AAG30760	ABM95054	ABB92172	AAG38799	AAG05438	AAG05439	AAG38800	AAG30761	ABG69053	AAG38801
Aam95055	Aag36911	Aag36912	Aag36913	Abm45273	Abm65954	Aau48754	Abg20404	Abu18890	Adt60469	Aag30759	Aag30760	Abm95054	Abb92172	Aag38799	Aag05438	Aag05439	Aag38800	Aag30761	Abg69053	Aag38801
Human rep	Arabidops	Arabidops	Arabidops	Propionib	Propionib	Propionib	Novel hum	Protein e	Plant pol	Arabidops	Arabidops	M. xanthu	Herbicida	Arabidops	Arabidops	Arabidops	Arabidops	Arabidops	Amino aci	Arabidops

ALIGNMENTS

RESULT 1 ADR38726 antibacterial; antibody; botulinum neurotoxin type A; BONT/A; BONT/A; BONT/A neutralising epicope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3. Marks JD, 31-AUG-1998; 98US-00144886. 01-AUG-2002; 2002US-0400721P. Mus sp. 02-DEC-2004 ADR38726 standard; peptide; 11 01-AUG-2003; 2003US-00632706. 09-SEP-2004. US2004175385-A1. Mouse heavy chain variable region CDR3 seqid 128. (REGC) UNIV CALIFORNIA. Amersdorfer P; (first entry) B

New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.

WPI; 2004-652009/63.

Example 3; SEQ ID NO 128; 110pp; English.

The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone \$25, C25, C39, IC6, 3D12, B4, IF3, huC25, Ax1, Ax2, WR1(V), WR1(T), 3-1, 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum neurotoxin type A (BoNT/A). Also described are: a polypeptide (II) comprising BoNT/A neutralising epitope having an epitope that is

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CC specifically bound by an antibody expressed by clones as mentioned in (I) C; producing (I); and a composition (III) comprising several anticombulinum neurotoxin antibodies, where each antibody is specific for a CC different epitope of a botulinum neurotoxin and the combination of CC antibodies shows greater toxin neutralisation than the single antibodies in surplus. The following are disclosed: a pharmaceutical composition CC comprising (I); and a kit comprising (I). (I) is useful for neutralising CC BNNT/A antibody and for neutralising a botulinum neurotoxin which CC involves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin and the CC combination of antibodies shows greater toxin neutralisation than the CC single antibodies in surplus. (I) is useful for diagnosing the botulism CC consigned the pathologies associated with botulinum neurotoxin CC enables rapid detection or diagnosis of botulism. This is the amino acid sequence of mouse heavy chain variable region complementarity determining CC region 3 (CDR3) from anti-botulinum neurotoxin antibodies.
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Best Local S
Matches 11
The invention relates to an isolated nucleic acid comprising any one of the 6213 antisense sequences given in the specification where expression of the nucleic acid inhibits proliferation of a cell. Also included are:

(1) a vector comprising a promoter operably linked to the nucleic acid
                                                                                                                                                                                                                                                                                                                                                                   Wang
Wall
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06-SEP-2001; 2001US-00948993.
25-OCT-2001; 2001US-0342923P.
08-FEB-2002; 2002US-00072851.
06-MAR-2002; 2002US-0362699P.
                                                                                                                                 Claim
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                                                                                                                                                                                      isolate
                                                                                                                                                                                                                                                                                                                                                                                                                                               (ELIT-)
                                                                                                                                                                              antisense nucleic acids, useful for identifying proteins or screening homologous nucleic acids required for cellular proliferation to late candidate molecules for rational drug discovery programs.
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                                                                                                                                                                                                                                                                                        2003-029926/02.
DB; ACA49401.
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Trawick
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                                                                                                                                 SEQ
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                                                                                                                                    ID NO
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                                                                                                                               73455; 1766pp;
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Pred. No. 0.00019;
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                                                                                                                                 English.
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Forsyth
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Xu HH;
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RESULT 3
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                 N-PSDB;
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08-FEB-2002;
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06-SEP-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense; prokaryotic essential gene; cell proliferation; drug design
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein encoded by Prokaryotic essential gene #32569.
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9; Conserv
                                                                                                                       ELITRA PHARM
                                                                  Zamudio C,
Trawick JD,
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; 2001US-00948993.
; 2001US-0342923P.
; 2002US-00072851.
; 2002US-0362699P.
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                                                                    Malone
Carr G
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69.2%;
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Pred. No. 40;
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                                                                    Haselbeck R, Yamamoto R,
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                                                                    Ohlsen
Forsyth
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Xu HH;
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RESULT 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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       21-MAR-2001; 2001US-00815242.

06-SEP-2001; 2001US-00948993.

25-OCT-2001; 2001US-0342923P.

08-FEB-2002; 2002US-00072851.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense; prokaryotic essential gene; cell proliferation; drug design
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protein encoded by Prokaryotic essential gene #33404
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(1) a vector comprising a promoter operably linked to the nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               preumoniae or P. aeruginosa. The present sequence is encoded by one of
e target prokaryotic essential genes. Note: The sequence data for this
tent did not form part of the printed specification, but was obtained
electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Loca1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GPWELV----GYF 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GPWELVLGPFGYF 139
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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Pred. No.
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RESULT 5
ADH12894
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Best Local
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                                      Immunogenic protein; protective genetic vaccine; antibacterial.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 367 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 25; SEQ ID NO 75801; 1766pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to
                                                                                                                                                                                  ADH12894;
                                                                                                                                                                                                                      ADH12894 standard; protein; 207 AA
                                                                                                                                            25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      isolate candidate molecules for rational drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ne invention relates to an isolated nucleic acid comprising any one 6213 antisense sequences given in the specification where express the nucleic acid inhibits proliferation of a cell. Also included
                                                                                                                                                                                                                                                                                                                            127 GPWELVLGPFGYF 139
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                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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Trawick
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                                                                                                   tularensis immunogenic protein 75, SEQ ID NO:75
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                                                                                                                                            (first entry
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Carr GJ,
                                                                                                                                                                                                                                                                                                                                                                                                                           66.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                               Score 44; DB
Pred. No. 48;
                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                             immune response; vaccine;
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Forsyth
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 367
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Francisella tularensis

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RESULT 6
ABM89126
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Best Local S
Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention also relates to a pharmaceutical composition comprising the protein or the nucleic acid in combination with a pharmaceutical carrier or excipient. The proteins and nucleic acids are useful in vaccine compositions for producing a protective immune response against francisella tularensis infection in a mammal, or for preventing ot trearing Francisella tularensis infection in a mammal, the present sequence represents a Francisella tularensis protein of the invention.
Kreps J,
                                                 22-JUN-2001; 2001US-0300112P.
24-AUG-2001; 2001US-0314662P.
26-SEP-2001; 2001US-035217P.
21-NOV-2001; 2001US-0332132P.
                                                                                                               21-JUN-2002; 2002WO-US019668
                                                                                                                                        30-JAN-2003
                                                                                                                                                                 WO2003008540-A2
                                                                                                                                                                                                                 abiotic stress
                                                                                                                                                                                                                                         Rice abiotic stress responsive polypeptide SEQ ID NO:7372.
                                                                                                                                                                                                                                                                   02-JUN-2005
                                                                                                                                                                                                                                                                                           ABM89126;
                                                                                                                                                                                                                                                                                                                 ABM89126 standard; protein; 415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to 100 potentially immunogenic proteins from Francisella tularensis (ADH12820-ADH12919) and nucleic acids encoding them (ADH12920-ADH13019) which may be used in vaccines. The nucleic amay be contained within a vaccine, bacterial or plasmid vector. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     response in a mammal against infection by Francisella tularensis, or preventing or treating Francisella tularensis infection in a mammal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Titball
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                          (SYGN ) SYNGENTA PARTICIPATIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein, useful as a vaccine for producing a protective immune onse in a mammal against infection by Francisella tularensis,
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 Briggs
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                                                                                                                                                                                                                                                                                                                                                                                                                                 65.2%; Score 43; ilarity 100.0%; Pred. No. Conservative 0; Mismatc
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 Cooper B,
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                          AG.
 Glazebrook J,
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 Goff SA,
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and polypeptides. Also disclosed are vectors, expression cassettes, host cells, and plants containing such polynucleotides. Also disclosed are methods for using the polynucleotides and polypeptides to alter the responsiveness of a plant to ablotic stress. The invention is useful in agriculture. The nucleic acid is useful for determining whether a test plant has been exposed to an abiotic stress condition. It is also useful for selecting an agent that alters abiotic stress regulated polynucleotide expression in a plant cell, and to identify a homolog or ortholog to an abiotic stress responsive polynucleotide. The nucleic acid molecule and the polypeptide encoded by it are useful in altering the responsiveness of a plant to an abiotic stress, such as cold stress, salt stress, osmotic stress or any of their combinations. The present sequence is used in the exemplification of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia;
                                                       Isolated nucleic acids and polypeptides, useful for preventing and treating e.g. leukemia, inflammation and immune disorders.
                                                                                                                                               WPI; 2001-514838/56.
N-PSDB; AA188704.
                                                                                                                                                                                                                                                                                                                                                         28-FEB-2000;
18-MAY-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 415 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Moughamer T,
                                                                                                                                                                                                                                     Tang YT,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nervous system disorders; arthritis;
                                                                                                                                                                                                                                                                                               (HYSE-) HYSEQ
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                                                                                                                                                                                                                                     Liu C,
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2000US-00577409.
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ID NO 22665; 1399pp +
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75.0%;
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Pred. No. 1.2e+02;
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   Sequence Listing;
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         English
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                                                                                                                                                                                                                                                                                                                                                                                                            Region
                Claim
                                          glioma
                                                       Novel monoclonal antibodies,
                                                                                   WPI; 1996-058411/06.
N-PSDB; AAT10938.
                                                                                                                            Dan MD;
                                                                                                                                                                                   21-JUN-1994;
                                                                                                                                                                                                                                           28-DEC-1995.
                                                                                                                                                                                                                                                                       WO9535374-A1
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                                          specific cell surface
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             Page 33; 53pp; English
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                                                                                                                                                                                                                                                                                                 /note= "complementarity
claimed)"
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Pred. No.
                                         antigens,
                                          BT34/A5 and BT32/A6 - used to characterise antigens, and in the treatment of glioma.
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06-SEP-2001;
25-OCT-2001;
08-FEB-2002;
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The invention relates to an isolated nucleic acid comprising any one of the 6213 antisense sequences given in the specification where expression of the nucleic acid inhibits proliferation of a cell. Also included are: (1) a vector comprising a promoter operably linked to the nucleic acid encoding a polypeptide whose expression is inhibited by the antisense nucleic acid; (2) a host cell containing the vector; (3) an isolated polypeptide or its fragment whose expression is inhibited by the antisense nucleic acid; (4) an antibody capable of specifically binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wang
Wall
                                                                                                                                                                                                                                                                                                         New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 121 AA;
                                                                                                                                                                                                                                                       Claim 25; SEQ ID NO 48377; 1766pp; English.
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6; Conserv
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2001US-0342923P.
2002US-00072851.
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Pred. No. 49;
2; Mismatches
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Forsyth
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Xu HH;
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the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular proliferation or the activity of a gene in an operon required for proliferation; (7) identifying a compound that influences the activity of the gene product or that has an activity against a biological pathway condentifying a gene required for cellular proliferation or the biological pathway in which a proliferation, or that inhibits cellular proliferation of an expansion acts; (9) manufacturing an antibiotic; (10) profiling a compound's activity; (11) a culture comprising strains in which the gene condent is overexpressed or underexpressed; (12) determining the extent compound's activity; (11) a culture comprising strains in which the gene conduct is overexpressed or underexpressed; (12) determining the extent compound to a conduct it of the strains is present in a culture or collection of conduct is overexpressed or underexpressed; (12) determining the extent compound to a conduct it over the strains is present in a compound that inhibits the condition and conduct is overexpressed or strains in present sequence acids are useful for conduct is proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational conduction of the strains in cells other than S. aureus, S. typhimurium, conducted for proliferation in cells other than S. aureus, S. typhimurium, conducted in conduction of the printed specification, but was obtained conducted in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
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WPI; 2003-229341/22.
N-PSDB; ADC07985.
                                                                                                                                                                                                                         22-JUN-2001; 2001US-0300112P
26-SEP-2001; 2001US-0325277P
20-DEC-2001; 2001US-0342327P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         plant biotechnology; carbohydrate synthesis; carbohydrate metabolism;
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                                                                                    Glazebrook
                                                                                                                                                                                                                                                                                                                                          21-JUN-2002; 2002WO-IB002450
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                                                                                                                                                                     (SYGN )
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                                                                           Cheng
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                                                                                                              E
                                                                              W, Briggs S,
Katagiri F,
                                                                                                                                                                     PARTICIPATIONS
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                                                                                 Cooper B, Goff !
Kreps J, Provart
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3; Mismatches
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                                                                              Goff SA,
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                                                                                    Moughamer T;
Ricke D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cereal grain;
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PRINCE REPRESENTATION OF THE PRINCE P

New plant genes encoding polypeptides having associated with the synthesis, metabolism or

an activity degradation

involved in or of carbohydrates

capable of detecting 1000 or more genes from Drosophila. The invention useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of inserticides. therapeutics and pharmaceutical drugs. The invention

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RESULT 11
ABB67542
ID ABB67
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention, in the area of plant biotechnology, relates to novel polynucleotides comprising a nucleotide sequence encoding a protein which is involved in or associated with the synthesis, metabolism or degradation of carbohydrates in the plant grain and the expression of which is up-regulated during grain filling. The plant is selected from corn, tomato, banana, canola, cotton, peanut, sorghum, tobacco, sugarbeet, wheat, and rice. The invention may be useful for the improvement of protein, oil, starch, fibre and moisture content of the cereal grains. In addition, carbohydrate levels may be modified to a more desirable level using the present invention. The present sequence is the sequence of a rice protein of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                               New isolated nucleic acid genes from Drosophila and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 792 AA;
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                                                                                                                                                                              WPI; 2001-656860/75.
N-PSDB; ABL11645.
                                                                                                                                                                                                                                                                                       23-MAR-2000;
11-JUL-2000;
                                                                                                                                                                                                                                                                                                                                  23-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                        Drosophila melanogaster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    pharmaceutical.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Drosophila; developmental biology; cell signalling; insecticide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Drosophila melanogaster polypeptide SEQ ID NO 29418
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                                                        The invention relates to an isolated nucleic acid detection reagent
                                                                                     Disclosure; SEQ ID NO 29418; 21pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                27-SEP-2001.
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                                                                                                                     interactions.
                                                                                                                                                                                                                                                         (PEKE ) PE
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6; Conser
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2000US-00614150.
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66.7%;
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                                                                                                                                                                                                                             PWD,
                                                                                                                                 detection reagent for detecting 1000 or more for elucidating cell signaling and cell-cell
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Pred. No. 3.6e+02;
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RESULT 12
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                                          The present invention describes a chimpanzee C68 adenoviral capsid protein, which is substantially free of other viral proteins with which it is naturally associated, comprising:

[3] (a) a hexon protein comprising [3] amino acid sequence (see ABP56652); (b) a penton protein comprising 534-amino acid sequence (see ABP56647); (c) a fibre protein comprising 425-amino acid sequence (see ABP56642); or (d) a unique fragment of any of (A)-(C) comprising 8-amino acid residues in length. Also described:

[1] a novel adenovirus serotype comprising a unique fragment of the C68 hexon protein fused to a heterologous adenovirus hexon peptide; (2) a hexon protein fused to a heterologous adenovirus hexon peptide; (2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chimpanzee C68 adenovirus; rapid screening; bacterial transformant; simian adenovirus; cytostatic; antipsoriatic; antimicrobial; vaccine; adenoviral; capsid protein; hexon; penton; fibre protein; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequences (ABL01840-ABL16175) and the encoded proteins (ABB7737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
recombinant or pseudotyped adenovirus comprising a capsid of the novel adenovirus serotype encapsidating a molecule for delivery to a target cell; (3) an adenoviral capsid; (4) a pharmaceutical composition; (5)
                                                                                                                                                                                                  Disclosure; Page
                                                                                                                                                                                                                                              New C68 chimpanzee adenoviral capsid protein, useful for preparing a composition for treating hyperproliferative conditions e.g., cancer or psoriasis and as a vaccine against bacterial, fungal, viral or parasitic
                                                                                                                                                                                                                                                                                                                                                           Gao
                                                                                                                                                                                                                                                                                                                                                                                                                      22-JUN-2001;
04-JUN-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                           Wilson
                                                                                                                                                                                                                                                                                                                                                                                        UNIV PENNSYLVANIA.
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2002US-0385632P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                 88; 124pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'note= "any amino acid"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA sequences (ABL16176-ABL30511),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           condition; psoriasis; infection.
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77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ε3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1352;
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ns (ABB57737-
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RESULT 13
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                   The invention relates to the isolation of genes and their encoded proteins from Photorhabdus luminescens. The isolated sequences are sources of probes and primers for detecting the genome of P. luminescens and related species; to study polymorphisms; for gene analysis and for detection/amplification of the genes. Antibodies (Ab) raised against the polypeptides encoded by the genes are used for detection/identification of P. luminescens, e.g. in foods. The genes, proteins, Ab and cells that carry a gene-containing vector are used to select compounds that modulate, regulate, induce or inhibit expression of the genes in plants, animals or microorganisms other than P. luminescens and are able to alter response or sensitivity to toxins and antibotics produced by P. luminescens. Cells transformed to express the genes are useful for recombinant production of the proteins, particularly toxins and antibotics produced. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              chimpanzee C68 adenoviral capsid protein has cytostatic, antipsoriatic and antimicrobial activities, and can be used in vaccines. The chimpanzee C68 adenoviral capsid protein is useful for preparing a composition for treating hyperproliferative conditions e.g., cancer or psoriasis and as a vaccine against bacterial, fungal, viral or parasitic infection. The present sequence represents a chimpanzee C68 adenovirus E3 16 kDa protein, which is given in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-148459/14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Duchaud E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antibacterial; fungicide; insecticide; polymorphism; genetic analysis; detection; food; gene expression; plant; animal; microorganism; toxin; antibiotic; biopesticide; virulence factor; disease model; plague;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 2; SEQ ID NO 3389; 1205pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Buchrieser C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-FEB-2002; 2002WO-IB003040
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Photorhabdus luminescens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Photorhabdus luminescens protein sequence #3389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-NOV-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rapid screening of recombinant constructs; and (6)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence of Photorhabdus luminescens and encoded polypeptides, e.g. as therapeutic antimicrobials and agricultural pesticides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ٠<u>.</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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85.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          283
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Frangeul L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , 68
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Best Local !
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            therapeutically (to treat microbial infection by bacteria or fungi that are sensitive to P. luminescens-encoded toxins or antibiotics) and as biopesticides. Other uses of the genes and the proteins are as virulence factors and for identifying targets of human diseases for which P. luminescens is a model (particularly plague and whooping cough). This sequence represents one of the isolated P. luminescens proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             plant protectant; plant growth regulant; gene therapy; plant; recombinant DNA construct; physical array; plant breeding marker; cold tolerance; heat tolerance; drought tolerance; herbicide tolerance; extreme osmotic condition; pathogen tolerance; pest tolerance; growth rate; cell cycle pathway; disease resistance; galactomannan production; lignin production; plant growth regulator;
The invention describes a recombinant DNA construct comprising a polynucleotide consisting of a sequence encoding an amino acid sequence available in electronic form from the US patent office at ftp.seqdata.uspto.gov/sequence.html?DocID:2004034888. The polynucleotide of the invention are also useful in physical arrays of molecules and as plant breeding markers. The recombinant DNA construct is useful for improving plant tolerance to cold, heat, drought, herbicides, extreme
                                                                                                                    Claim
                                                                                                                                                            cold, heat, drought, r
pests, for conferring
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                                                                                                                                                                                                                                                                                               (LIUJ/)
(ZHOU/)
(KOVA/)
(SCRE/)
(TABA/)
                                                                                                                                                                                                                                                                                                                                                                                                    06-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unidentified
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               yield; plant growth;
                                                                                                                                                                                                                                                                                  (CAOY/)
                                                                                                                                                            recombinant DNA construct, useful for improving plant tolerance to d, heat, drought, herbicides, extreme osmotic conditions, pathogens ts, for conferring increased resistance to plant disease, or for
                                                                                                                                                                                                                         2004-180133/17.
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                                                                                                                  1; SEQ ID NO 70098; 15pp; English.
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                                                                                                                                                                                                                                                                                              LIU J.
ZHOU Y.
KOVALIC D K.
SCREEN S B.
TABASKA J E.
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                                                                                                                                                                                                                                                    Zhou Y,
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                                                                                                                                               yield
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2001US-00985678.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tion; lignin production; plant growth regulator; plant development; seed oil; protein yield;
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Pred. No. 1.8e-
2; Mismatches
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1.8e+02;
                                                                                                                                                                                                                                                      Tabaska
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or for
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RESULT 15
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05-MAY 1999
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11-MAY 1999
14-MAY 1999
14-MAY 1999
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14-MAY 1999
14-MAY 1999
                                                                                                                                                                                                          06-APR-1999;
08-APR-1999;
16-APR-1999;
                                                                                                                                                                                                                                            29-MAR-1999;
01-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  osmotic conditions, pathogens or pests, for manipulating growth rate in plant cells by modification of the cell cycle pathway, for conferring increased resistance to plant disease, for producing galactomannan, lignin or plant growth regulators, for increasing the rate of homologous recombination in plants, for improving yield by modification of photosynthesis or carbohydrate, nitrogen or phosphorus use and/or uptake or by providing improved plant growth and development under at least one atress condition or for modifying seed oil or protein yield and/or content. This is the amino acid sequence of a plant full length insert polypeptide that can be used in the recombinant DNA construct of the
                                                                                                                                      28-APR-1999;
30-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 477
                                                                                                                                                              23-APR-1999
23-APR-1999
                                                                                                                                                                                     19-APR-1999
21-APR-1999
                                                                                                                                                                                                                                                                   23-MAR-1999
25-MAR-1999
                                                                                                                                                                                                                                                                                                     25-FEB-1999;
05-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                           Arabidopsis thaliana.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein identification; signal transduction pathway; metabolic pathway;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arabidopsis thaliana protein fragment
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99US-0126264P

99US-0126785P

99US-0128734P

99US-0128714P

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99US-0132449P

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Pred. No. 3.1e+02;
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10-JUN-1999 11-JUN-1999 12-JUN-1999 12-JUN-1999 12-JUN-1999 13-JUN-1999 10-JUN-1999 10-JUN-1999 10-JUN-1999 11-JUN-1999 11-JUN	19-MAY-1999; 20-MAY-1999; 21-MAY-1999; 24-MAY-1999; 25-MAY-1999; 27-MAY-1999; 01-JUN-1999; 03-JUN-1999; 07-JUN-1999; 07-JUN-1999; 08-JUN-1999; 10-JUN-1999;
99US-0118847P 99US-013915P 99US-013945P 99US-013945P 99US-013945P 99US-013945P 99US-013946P 99US-013946P 99US-013946P 99US-013946P 99US-013946P 99US-013946P 99US-013946P 99US-013975P 99US-0139817P 99US-014829P 99US-014829P 99US-01482P 99US-01482PP 99US-01482PP 99US-01482PP 99US-01482PP 99US-014331P 99US-0144331P 99US-0144331P 99US-0144332P 99US-014508P 99US-014508P 99US-014508P 99US-0145274P 99US-0145274P 99US-0145274P 99US-0145274P 99US-0145274P	99US-0134941P. 99US-0135124P. 99US-0135353P. 99US-0136629P. 99US-0136392P. 99US-0136792P. 99US-0137722P. 99US-0137722P. 99US-0137722P. 99US-0137724P. 99US-0138540P.
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99US-0148171P 99US-014831PP 99US-014831PP 99US-0148684P 99US-0149268P 99US-0149268P 99US-0149268P 99US-0149268P 99US-0149268P 99US-0151065P 99US-0151065P 99US-0151306P 99US-01513307P 99US-01513307P 99US-01513307P 99US-01513307P 99US-01513307P 99US-01513375R 99US-0154039P 99US-0154039P 99US-0155433P 99US-0155433P 99US-0155433P 99US-0155433P 99US-0157753P 99US-0158029P 99US-015933P 99US-0160767P	-0145951 -0146386 -0146388 -0146389 -01470389 -0147204 -0147204 -0147192 -0147302 -0147303 -0147303

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PR 26-OCT-1999; 99US-016136DP.
PR 28-OCT-1999; 99US-016136DP.
PR 28-OCT-1999; 99US-016139DP.
PR 28-OCT-1999; 99US-016193DP.
PR 29-OCT-1999; 99US-016193DP.
PR 29-OCT-1999; 99US-0162142P.
Query Match
Best Local Similarity 60.68; Score 40; DB 3; Length 885;
Best Local Similarity 85.78; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Gaps 0;
Matches 6; Conservative 1; Mismatches 0; Gaps 0;

Oy 1 GPWELVG 7

Db 411 GPWGLVG 417

Search completed: December 4, 2005, 04:44:57

Job time: 98.5625 secs.
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Copyright

GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.

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Result
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642	601	502	468	462	426	413	400	365	349	277	276	241	235	226	217
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acetyl-CoA synthe	heat shock protein	hypothetical prot	hypothetical prote	5HT3 receptor subu	choline monooxyger	conserved hypothet	probable drug resi	•	hypothetical prote	ABC transporter	probable ABC trans	probable 60S acid	spoU protein homo	hypothetical prot	frnE protein VCA0

# ALIGNMENTS

probable transmembrane sugar transport protein - Streptomyces coelicolor C;Species: Streptomyces coelicolor C;Species: Streptomyces coelicolor C;Cpate: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 09-Jul-2004 C;Accession: 735791
R;Seeger, K.J; Harris, D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A. submitted to the EMBL Data Library, July 1998
A;Reference number: Z21570
A;Accession: T35791
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Accession: T35791
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Residues: 1-279 <SEES-A;Cross-references: UNIPROT:087858; UNIPARC:UPI00000DACA7; EMBL:AL031013; PIDN:CAA19796.
A;Experimental Source: strain A3(2)
C;Genetics:

	A;Gene: SCOEDB:SC8A6.24 C;Superfamily: maltose transport protein malG
<b>,</b>	Query Match 68.2%; Score 45; DB 2; Length 279; Best Local Similarity 77.8%; Pred. No. 2.8; Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
ransmemb	Qy 3 WELVGYFDS 11
ndecapre	
al prote	Db 160 WMLIGYFDS 168
syntheta	
al proce	
e reguta	NEWOLF 2
Orter MI	probable underspread sphere alpha-N-acetylelucceaminyltraneferage GTV3617 [imported]
ransport	C:Species: Salmonella enterica subsp. enterica serovar Typhi
NA-direc	A; Note: this species has also been called Salmonella typhi
lasma me	C;Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 03-Feb-2003
al prote	C;Accession: AD0922
al prote	R;Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher,
dehydrog	th, T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar,
in VC024	, S.; Moule, S.; O'Gaora, P.
epting c	Nature 413, 848-852, 2001
ng ATPas	A; Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.;
drogenas	A;Title: Complete genome sequence of a multiple drug resistant Salmonella enterica serov
ptake fa [	A;Reference number: AB0502; MUID:21534947; PMID:11677608
in homol	A; Accession: AD0922
peat pro	A;Status: preliminary
al prote	A; Molecule type: DNA
tein n-a	A; Residues: 1-367 < PAR>
tein N-a	A;Cross-references: UNIPARC:UPI000005A58F; GB:AL513382; PIDN:CAD09398.1; PID:g16504516;
tein N-a	C;Genetics:
al prote	A;Gene: STY3637
al prote	
al prote	Best Local Similarity 69.2%; Pred. No. 5.6;

C64041

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hypothetical protein At2g46220 [imported] - Arabidopsis thaliana (;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004 C;Accession: B84900 R;Lin, X.; Kaul, S.; Rounslev. S.D. change T. T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S. Smith, H.O.; Woese, C.R.; Venter, J.C.
A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaec A;Reference number: A69250; MUID:98049343; PMID:9389475
A;Accession: E69368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.; Do.; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L. Nature 390, 364-370, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             glutamine synthetase (glnA) homolog - Archaeoglobus fulgidus
C;Species: Archaeoglobus fulgidus
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein B0228.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
                                                                                                                                    RESULT 5
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                                                                                                                                                                                                                                                                                                                                                                                        A;Cross-references: UNIPROT:O29313; UNIPARC:UPI0000056F0D; GB:AE001039;
                                                                                                                                                                                                                                                                                                                                                                                                              A; Residues: 1-491 < KLE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Introns: 1456/2; 1482/3; 1516/2; 1551/3; 1595/3; 1646/1; 1671/1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Experimental source: strain Bristol N2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Residues: 1-1788 <LEI>A;Residues: 1-1788 <LEI>A;Cross-references: UNIPROT:Q8IG61; UNIPARC:UPI00000851C9; EMBL:U23168;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Leimbach, D.
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A;Gene:
A;Map po
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A;Residues: 1-619 <VEI>
A;Cross-references: UNIPROT:Q91754; UNIPARC:UPI000012B2E2;
C;Superfamily: glucokinase regulator
                                                                                                                                                                                                                                                                                                                                 glucokinase regulator - African clawed frog
C;Species: Xenopus laevis (African clawed frog)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: S48729; S49339
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A;Molecule type: DNA
A;Residues: 1-550 <STO>
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Bur. J. Biochem. 225, 43-51, 1994
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C; Genetics:
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                                                                                                                                                                                                                        A; Status: preliminary
                                                                                                                                                                                                                                          A;Title: Cloning and expression of a Xenopus liver cDNA encoding a fructose-phosphate-in A;Reference number: S48729; MUID:95010134; PMID:7925465 A;Accession: S48729
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70.0%;
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                                                                       Score 41; DB Pred. No. 32; 1; Mismatches
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Pred. No.
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hypothetical protein Rv2326c - Mycobacterium tuberculosis (strain H37RV) C;Species: Mycobacterium tuberculosis (c;Species: Mycobacterium tuberculosis C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 09-Jul-2004 C;Accession: G70704

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R.Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gc Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Holl Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S. Nature 393, 537-544, 1998

A;Authors: Sqares, R.; Suleton, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G. A;Title: Deciphering the biology of Mycobacterium tuberculosis from the complete A;Reference number: A70500; MUID:98295987; PMID:9634230

A;Accession: G70704 Holroyd, Gordon,

A;Cross-references: UNIPROT:P71886; UNIPARC:UPI000013BA74; GB:Z79702; GB:AL123456; NID:g A;Experimental source: strain H37Rv A; Molecule type: DNA A; Residues: 1-697 < COL> A;Status: preliminary; nucleic acid sequence not shown; translation not

Query Match Best Local Similarity 62.1%; 66.7%; Score Pred. No. 36, 2

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C;Accession: T44905
R;Parkhill, J.; Barrell, B.G.; Rajandream, submitted to the EMBL Data Library, August A;Reference number: Z22864
probable DNA-directed RNA polymerase II subunit [imported] - Arabidopsis thaliana (Species: Arabidopsis thaliana (mouse-ear cress) (Species: Arabidopsis thaliana (mouse-ear cress) (Spate: 02-reb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004 (Spate: 02-reb-2001) #sequence_revision 02-Feb-2001 #sequence_revision 
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A;Authors: Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.;

A;Title: Massive gene decay in the leprosy bacillus.

A;Reference number: A86909; MUID:21128732; PMID:11234002

A;Accession: B87015
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R;Cole, S.T.; Eiglmeier, K.; Parkhill, J.; James, K.D.;
R.; Davies, R.M.; Devlin, K.; Duthoy, S.; Feltwell, T.;
eam, M.A.; Rutherford, K.M.
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A;Residues: 1-726 <PAR>
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A;Status: preliminary; translated from GB/EMBL/DDBJ
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A;Residues: 1-724 <STO>
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Pred. No. 57;
1; Mismatches
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Pred. No. 57;
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C;Genetics:
A;Gene: PH1107
C;Superfamily: glycosidase, PH1107 type
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                                                                                                     A;Cross-references: UNIPROT:O58834; UNIPARC:UPI0000062FB7; GB:AP000005; NID:g3236132; PI
A;Experimental source: strain OT3
A;Note: this accession replaces an interim accession for a sequence replaced by GenBank
                                                                                                                                                                                                    A; Molecule type: DNA
A; Residues: 1-299 < KAW>
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                                                                                                                                                                                                                                                              A;Status: preliminary; nucleic acid sequence not shown; translation not shown
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M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Y
DNA Res. 5, 55-76, 1998
A;Title: Complete sequence and gene organization of the
A;Reference number: A71000; MUID:98344137; PMID:9679194
A;Accession: D71051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.; M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L. euss, D.; Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, No. 10, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, No. 10, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, No. 10, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, No. 10, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, No. 10, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, W.C.; White, O.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nierman, N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Gene: At2g40030
A:Map position: 2
                                                                                                                                                                         R;Kawarabayasi, Y.; Sawada, M.; Horikawa, H.; Haikawa, Y.; Hino, Y.; Yamamoto, S.; Sekinom.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida, N.; Oguchi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Map position: 2 C_i Superfamily: Na(+)/K(+)-transporting ATPase alpha chain; ATPase
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A;Accession: F84637
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A;Reference number: A84420; MUID:20083487; PMID:10617197
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                                                                                                                                                                                                                                                                                                                                                                                      hypothetical protein PH1107 - Pyrococcus horikoshii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Gene: At2g24520
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A;Residues: 1-931 <STO>
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                                                                                                                                                                                                                                                              ;Species: Pyrococcus horikoshii
;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 31-Dec-2004
;Accession: D71051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;Cross-references: UNIPARC:UPI000016237B;
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Best Local
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85.7%;
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Pred. No. 70;
2; Mismatches
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RESULT 15
S28476
S29476
S29476
Fibl protein VC0249 [similarity] - Vibrio cholerae (strain N16961 serogroup C;Species: Vibrio cholerae
C;Species: Vibrio cholerae
C;Date: 12-Mar-1993 #sequence_revision 12-Mar-1993 #text_change 09-Jul-2004
C:Accession: S28476; H82346
                                                                                                                                                                                                                                                                                                                                                A;Residues: 1-459 <DEZ>
A;Cross-references: UNIPROT:P29507; UNIPARC:UPI00001292F9
C;Superfamily: glutamate dehydrogenase
                                                                                                                                                                                                                                                                                                                                                                                                                                           R;de Zoysa, P.A.; Connerton, I.F.; Watson, D.C.; Johnston, J.R.
Curr. Genet. 20, 219-224, 1991
A;Title: Cloning, sequencing and expression of the Schwanniomyces occidentalis NADP-depc A;Reference number: S17907; MUID:92035089; PMID:1934128
A;Accession: S17907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        glutamate dehydrogenase (NADP) (EC 1.4.1.4) - yeast (Schwanniomyces occidentalis var. C;Species: Schwanniomyces occidentalis var. occidentalis
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 05-Oct-2004
C;Accession: S17907
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A;Residues: 1-320 <LAN>
A;Residues: 1-320 <LAN>
A;Cross-references: UNIPROT:O61975; UNIPARC:UPI000080228; EMBL:AF068718; PIDN:AAC17768.
A;Experimental source: strain Bristol N2; clone R01B10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               submitted to the RMBL Data Library, May 1998
A;Description: The sequence of C. elegans co
A;Reference number: Z21318
A;Accession: T33303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein R01B10.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                     C; Keywords: NADP; oxidoreductase
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A;Introns: 25/2; 73/2; 211/3; 241/2
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Matches 5
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Langston, Y.; Beck, C.
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Matches
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Local Similarity 55.6%; Pred. No.
1es 5; Conservative 3; Mismatch
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A;Cross-references: UNIPROT:Q06959; UNIPARC:UPI00000D470B; EMBL:X59554; NID:g48381; PIDN: A;Experimental source; strain 017
R;Heidelberg, J.F.; Eisen, J.A; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.; chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, I.; Sellars, P. 1, R.R.; Mekalanos, J.J.; Venter, J.C.; Fraser, C.M.
Nature 406, 477-483, 2000
A;Title: DNA Sequence of both chromosomes of the cholera pathogen Vibrio cholerae.
A;Reference number: A82035; MUID:20406833; PMID:10952301
A;Accession: H82346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Manning, P.A.
submitted to the EMBL Data Library, May 1991
A-Raference number: S28467
                                                                                                                                        ş
                                                                                                                                                                                                                                                                                      A;Map position: 1
C;Superfamily: 4-coumarate-CoA ligase; acetate-CoA ligase homology F;47-468/Domain: acetate-CoA ligase homology <ACL>
Search completed: December 4,
Job time : 17.5833 secs
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                                                                                                                                                                                                                                                                                                                                                                  A;Gene: rfbL; VC0249
                                                                                                                                                                                                                                                                                                                                                                                         C;Genetics
                                                                                                                                                                                                                                                                                                                                                                                                           A;Cross-references: UNIPARC:UPI00000D470B; GB:AE004113; GB:AE003852; NID:g9654648; PIDN:
A;Experimental source: serogroup O1; strain N16961; blotype El Tor
                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-471 <HEI>
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A; Residues: 1-471 < MAN>
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                                                                                                                                                                                                                    Best
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                                                                                             329
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و
                                                                                                                                                                                                                    Similarity
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                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                  59.1%;
                      2005, 04:53:34
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                                                                                                                                                                                                                    Score 39; DB
Pred. No. 54;
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Minimum Maximum

D8

geq geq

length: 0 length: 2000000000

Total number

2166443 seqs,

705528306 residues

Post-processing:

Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database

UniProt_05.80:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Title: Perfect score:

US-10-632-706-128

GPWELVGYFDS 11

Scoring table: Sequence:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Run on:

December

4, 2005, 04:31:36 ; Search time 100.375 Seconds (without alignments) 77.318 Million cell updates/sec

OM protein - protein search, using

sw model

Copyright

GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,
                                                                                                                                                                                                                                                                                                                                                                                                                     is derived by analysis of the total score distribution.
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                  082m58
05mq32
082m632
082m67
082m677
05pk677
05pk671
05wru1
0748m8
06k1t5
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Q5PKK1_SALPA Q63N53_BURPS Q4K719_PSEF5

Q4K719_PSEF5 Q7UYR6_RHOBA

Q5WRŪ1

CAEEL CAEEL

Result

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Query Match

Length

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087858_STRCO Q82M58_STRAW Q5NQ32_ZYMMO

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GCKR XĒNLA Q5SKĀ5_THET8 Q6PAX3_XENLA Y2326_MYCTU Y2353_MYCBO Q9V5J7_DROME

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11

Q5LH40 BACFN Q64XZ7_BACFR Q6BTL3_DEBHA

GLNA ARCFU Q4KEF0

Q748S8~GEOSL Q6K1T5 ORYSA Q8TJY9 METAC Q8D959 VIBVU Q7MLB3 VIBVY Q8Q061 METMA Q8KHK7_PSEAE

O82347 ARATH Q7UND8_RHOBA

	45	44	43	42	41	40	39	38	37	36	35	34	33	32
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ALIGNMENTS	Q8LRL7_PETHY	Q4INB2_GIBZE	Q4ZPN4_PSESY	Q87XQ4_PSESM	Q7N9W4_PHOLL	Q8BEL6_ADE04	Q6H1B6 9ADEN	Q6QPG9_9ADEN	Q6QPD3_9ADEN	Q6QP97_9ADEN	Q8UY74_9ADEN	Q8EB57_SHEON	Q7T7T5_9VIRU	Q7KQX6_DROME
	Q81r17 pet	Q4inb2 gib	Q4zpn4 pse	Q87xq4 pse	Q7n9w4 pho	Q8bel6 hum	Q6h1b6 hum	д6дрд9 віп	w	Q6qp97 sim	Q8uy74 sim	Q8eb57 she	Q7t7t5 het	Q7kqx6 dro
	petunia hyb	gibberella	pseudomonas	pseudomonas	photorhabdu	human adeno	human adeno	simian aden	simian aden	simian aden	simian aden	shewanella	heterosigma	drosophila

#### RESULT 1 O87858 STRCO ID O87858 STRCO P AC O87858; Query Match Best Local S Matches 7 "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2)."; Nature 417:141-147(2002). -i - FUNCTION: Part of a binding-protein-dependent transport system. -probably responsible for the translocation of the substrate acros the membrane (By similarity). -i SUBCELIULAR LOCATION: Integral membrane protein (By similarity). -i - SIMILARITY: Belongs to the binding-protein-dependent transport system permease family. -protein permease family. EMBL; AL939128; CAA19796.1; -; Genomic_DNA. EMBL; T35791, T35791. InterPro; IPR000515; BPD_transp. Pfam; PF00528; BPD_transp 1; 1. PROSITE; PS50928; ABC_TM1; 1. Complete proteome; Sugar transport; SEQUENCE 279 AA; 30335 MW; 88600 MEDLINE-2196410; PubMed=12000953; DOI=10.1038/417141a; Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L., Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H., Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M., Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S., Huang C.-H., Kieser T., Larke L., Murphy L.D., Oliver K., O'Neil S., Rabbinowitsch E., Rajandream M.A., Rutherford K.M., Rutter S., Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K., Seeger T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J., University Control of the control o Putative transmembrane sugar transport protein. OrderedLocusNames=SCO6603; ORFNames=SC9A6.24; Streptomyces coelicolor. Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; 01-NOV-1998 (TrEMBLrel. 08, Created) 01-NOV-1998 (TrEMBLrel. 08, Last sequence update) 01-WAR-2004 (TrEMBLrel. 26, Last annotation update) GO; GO:0016021; C:integral to membrane; IEA. GO; GO:0016020; C:membrane; IEA. GO; GO:0005351; F:sugar porter activity; IEA. GO; GO:0005215; F:transporter activity; IEA. GO; GO:0006810; P:transport; IEA. STRAIN=A3(2) NUCLEOTIDE SEQUENCE. NCBI_TaxID=1902; Streptomycineae; Streptomycetaceae; Streptomyces. dopwood D.A.; Similarity 7; Conserv Conservative PRELIMINARY; / M145; 68.2%; Score 45; DB Pred. No. 25; port; Transmembrane; Transport 886063385E8F3BFA CRC64; PRT; Mismatches 279 DB 2; B update) ۲. Length 279; Indels 0 Gaps across 0

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160

WMLIGYFDS

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SO SEE SELECTION OF SELECTION O
RESULT
Q5NQ32
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58 STRAW
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Q82M58;
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STRAIN-MA-4680 / ATCC 31267 / NCIMB 12804 / NRIB 8165;
MEDLINE-21477403; pubmed-11572948; DOI-10.1073/pnas.211433198;
Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C.,
Shinose M., Takahashi Y., Horikawa H., Nakzawa H., Osonoe T.,
Kikuchi H., Shiba T., Sakaki Y., Hattori M.;
"Genome sequence of an industrial microorganism Streptomyces
averatitlis: deducing the ability of producing secondary
                                                                   01-FEB-2005 (TrEMBLrel. 29, Created)
01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
01-FEB-2005 (TrEMBLrel. 29, Last annotation update)
Polyribonucleotide nucleotidyltransferase (EC 2.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam; PF00528; BPD transp 1; 1.

PROSITE; PS50928; ABC_TM1; 1.

Complete proteome; Transmembrane; Transport
SEQUENCE 290 AA; 31323 MW; 92650429419A
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01-JUN-2003 (TrEMBLrel. 24,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88888
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Complete genome sequence and comparative analysis of the microorganism Streptomyces avermitilis."; Nat. Biotechnol. 21:526-531(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.
STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;
MEDLINE=22608306; PubMed=12692562; DOI=10.1038/nbt820;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              metabolites.";
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Bacteria, Actinobacteridae, Actinomycetales, Streptomycineae, Streptomycetaceae, Streptomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Putative sugar ABC transporter permease OrderedLocusNames=SAV1802;
                                       Name=pnp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FUNCTION: Part of a binding-protein-dependent transport system probably responsible for the translocation of the substrate activity.

SUBCELLULAR LOCATION: Integral membrane protein (By similarity) system permease family.

Belongs to the binding-protein-dependent transport system permease family.

BA000030; BAC69513.1; -; Genomic DNA.

GO:0016021; C:integral to membrane; IEA.

GO:0005313; F:sugar porter activity; IEA.

GO:0005315; F:transport; IEA.

GO:0005319; F:transport; IEA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ., Ishikawa J., Hanamoto A., Shinose M., Kikuchi H.,
Y., Hattori M., Omura S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WMLIGYFDS
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                                       OrderedLocusNames=ZMO0549
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77.8%;
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Last annotation update)
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Pred. No. 26;
1; Mismatches
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R GO; GO:0000454; F:polyribonuclease activity; IEA.

R GO; GO:000454; F:polyribonucleotide nucleotidyltransferase a.

R GO; GO:0003723; F:RNA binding; IEA.

R GO; GO:0006376; P:RNA pindense activity; IEA.

R GO; GO:0006396; P:RNA processing; IEA.

R InterPro; IPR001247; 3 ExoRNase.

InterPro; IPR004088; KH_type_1.

InterPro; IPR004088; KH_type_1.

InterPro; IPR004088; KH_type_1.

InterPro; IPR0012162; PNPase.
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Best Local
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Pfam; PF03726; PNPase; 1.

Pfam; PF01138; RNase_PH; 2.

Pfam; PF03725; RNase_PH_C; 2.

Pfam; PF00575; S1; 1.

PIRSF: PIRSF005499; PNPase; 1.

SMAAT; SM00326; KH; 1.

SMAAT; SM00316; S1; 1.
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MECA SALTI STAN

28-FEB-2003 (Rel. 4

28-FEB-2003 (Rel. 4

10-MAY-2005 (Rel. 4
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Lee J.-S.,
Kang H.L.,
"The genome
Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain Churcher C.M., Mungall K.L., Bentley S.D., Holden M.T.G., Sebaihia Baker S., Basham D., Brooks K., Chillingworth T., Connerton P., Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J., Feltwell T., Hamilin N., Haque A., Hien T.T., Holroyd S., Jagels K., Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C., Quail M.A., Rutherford K.M., Simmonds M., Skelton J., Stevens K.,
                                                                                                                                                                                                                                                  28-FEB-2003 (Rel. 41, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
Undecaprenyl-phosphate alpha-N-acetylglucosaminyl i-phosphate
transferase (EC 2.7.8.-) (UDP-GlcNAc:undecaprenyl-phosphate GlcNAc-1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Complete proteome; Nucleotidyltransferase; Transferase
SEQUENCE 748 AA; 81949 MW; EB8C43821F85F6DB CRC64;
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Nat. Biotechnol.
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                                                                                                                     STRAIN-CT1
                                                                                                                                                                              Bacteria; Proceobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Salmonella.
                                                                                                                                                                                                            Salmonella typhi
                                                                                                                                                                                                                        Name=wecA; Synonyms=rfe; OrderedLocusNames=STY3637,
                                                                                                                                                                                                                                         phosphate transferase).
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                                                                                                       MEDLINE=21534947; PubMed=11677608; DOI=10.1038/35101607;
                                                                                                                                   NUCLEOTIDE
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Kim H., Kim J.-H., Kil J.-I., Pa
Jin S.-J., Um H.-W., Lee H.-J.,
Lee S.Y., Lee K.J., Kang H.S.;
                                                                                                                                 SEQUENCE [LARGE
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80.0%;
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Kim J.Y.,
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Burland V.
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MEDLINE=22531367; PubMed=12644504;
DOI=10.1128/JB.185.7.2330-2337.200
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Transferase;
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Lipopolysaccharide biosynthesis; Magnes
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- FUNCTION: Catalyzes the synthesis first lipid-linked intermediate in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                undecaprenol.

COFACTOR: Magnesium and manganese (By similarity)
PATHWAY: Synthesis of enterobacterial common anti
Synthesis of lipopolysaccharide O-antigen.
SUBCELLULAR LOCATION: Integral membrane protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lipid is also an acceptor for the addition of subsequent sugars complete the biosynthesis of O-antigen (By similarity).

CATALYTIC ACTIVITY: UDP-N-acetyl-D-glucosamine + undecaprenyl phosphate = UMP + N-acetyl-alpha-D-glucosaminyldiphospho-
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                                               033788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           similarity)
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                                                                                                                                                                                                                    Similarity
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V., Kodoyianni V., Schwartz D.C., Blattner F.R.;
Live genomics of Salmonella enterica serovar Typhi st
                                                                                                                                                                     GPWELV----GYF
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   (Rel.
                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rot entry is copyright. It is produced through a collaboration Swiss Institute of Bioinformatics and the EMBL outstation Bioinformatics Institute. There are no restrictions on it as its content is in no way modified and this statement is no
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                                                             STANDARD;
   41,
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Created)
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28DA31CB1AE2D930 CRC64;
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49;
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Whouslim C., Cano D.A., Casadesus J.;
"The sfix, rfe and metN genes of Salmonella typhimurium and their involvement in the His(c) pleiotropic response.";
Whol: Gen. Genet. 259:46-53(1998).
C. -- FUNCTION: Catalyzes the synthesis of Und-PP-GlcNAc (Lipid I), the FUNCTION: Catalyzes the synthesis of Und-PP-GlcNAc (Lipid I), the Cirist lipid-linked intermediate involved in ECA synthesis. This C. complete the biosynthesis of O-antigen (By similarity).
C. -- CATALYTIC ACTIVITY: UDP-N-acetyl-D-glucosamine + undecaprenyl phosphate = UMP + N-acetyl-alpha-D-glucosamine + undecaprenyl undecaprenol.
C. -- COPACTOR: Magnesium and manganese (By similarity).
C. -- ENZYME REGULATION: Inhibited by tunicamycin.
C. -- ENZYME Synthesis of enterobacterial common antigen (ECA).
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EMBL;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (1) OUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
STRAIN=LT2 / SGSC1412 / ATCC 700720;
MEDLINE=21534948; PubMed=11677609; DOI=10.1038/35101614;
MEDLINE=21534948; PubMed=11677609; DOI=10.1038/35101614;
                                                                                                                                                                                                                                                                                                 InterPro; IPR012750; ECA_WecA_rel.
InterPro; IPR007015; G19Co_trans 4
Pfam; PF00953; G19Cos_transf 4; 1.
TIGRPAMs; TIGR02380; ECA_wecA; 1.
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use
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                                                                                                                                                                                                                                          Transferase;
                                                                                                                                                                                                                                                         Complete proteome; Glycosyltransferase; Inner membrane;
Lipopolysaccharide biosynthesis; Magnesium; Manganese;
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transferase (EC 2.7.8.-) (UDP-GlcNAc:undecapreny1-phosphate GlcNAc-1-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        s Swiss-Prot entry is copyright. It is produced through ween the Swiss Institute of Bioinformatics and the EN European Bioinformatics Institute. There are no restr as long as its content is in no way modified and this s
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AE008883;
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; AAL22767.1;
; CAA05287.1;
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TRANSMEM TRANSMEM

Potential. Potential. HLG -> ALS

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Q63N53 BU
Q63N
AC Q63N
AC Q53N
AC 25-C
DT 25-C
DT 25-C
DT 25-C
OT 25-C
OT 75-C
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EMBL; CP000026; AAV79540.1; -; Genomic_DNA.

GO; GO:0019866; C:inner membrane; IEA.

GO; GO:0016021; C:integral to membrane; IEA.

GO; GO:0016757; F:transferase activity, transferring gl.

GO; GO:0016759; P:lipid metabolism; IEA.

GO; GO:0006629; P:lipid metabolism; IEA.

GO; GO:0009103; P:lipopolysaccharide biosynthesis; IEA.

InterPro; IPR001865; Ribosomal S2.

Pfam; PF00953; Glycos_transf_4; 1.
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SEQUENCE
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PubMedca15531882; DOI=10.1038/ng1470;

MCClelland M., Sanderson K.E., Clifton S.W., Latreille P.,

MCClelland M., Sabo A., Meyer R., Bieri T., Ozersky P., McLellan M.

Porwollik S., Sabo A., Meyer C., Berghoff A., Elliott G.,

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Leonard S., Sun H., Fulton L., Mash W., Miner T., Minx P.,

Delehaunty K., Fronick C., Magrini V., Nhan M., Warren W., Florea

Spieth J., Wilson R.K.;
      Hypothetical protein.
OrderedLocusNames=BPSS0443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Comparison of genome degradation in Paratyphi A and Typhi, human-
restricted serovars of Salmonella enterica that cause typhoid.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Salmonelia paratyphi-a.
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
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Name=rfe; OrderedLocusNames=SPA3758;
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Putative undecaprenyl-phosphate alpha-N-
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PS00962; RIBŌSOMAL 52; 1; UNKNOWN 1.
proteome; Glycosyltransferase; Transferase
367 AA; 41086 MW; IEDA31CB1AE2D938 CRC
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fluorescens Pf-5.";
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Bentley S.D., Sebaihia M., Thomson N.R., Bason N., Beacham I.R.,
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Chillingworth T., Cronin A., Crossett B., Davis P., DeShazer D.,
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"Genomic plasticity of the causative agent of melioidosis,
purkhildrin service causative agent of melioidosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN=K96243;
PubMed=15377794; DOI=10.1073/pnas.0403302101;
                                                                                                                                                                                                                                                       Nat. Biotechnol. 23:873-878 (2005).
EMBL; CP000076; AAY94113.1; -; Gen
SEQUENCE 231 AA; 25717 MW; A4D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; BX571966; CAH37899.1; -; Genomic_DNA.
Complete proteome; Hypothetical protein.
SEQUENCE 449 AA; 49531 MW; F1618B7466D15240 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bacteria; Proteobacteria; Betap:
Burkholderiaceae; Burkholderia;
NCBI_TaxID=28450;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Burkholderia pseudomallei (Pseudomonas pseudomallei).
Bacteria, Proteobacteria, Betaproteobacteria, Burkholderiales,
Burkholderiaceae, Burkholderia, pseudomallei group.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bacteria; Proteobacteria; Gamm
Pseudomonadaceae; Pseudomonas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORFNames=PFL 4883;
Pseudomonas fluorescens (strain Pf-5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Phosphoserine phosphatase,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-SEP-2005 (TrEMBLrel. 31, Creat
13-SEP-2005 (TrEMBLrel. 31, Last
13-SEP-2005 (TrEMBLrel. 31, Last
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Proc. Natl. Acad. Sci. U.S.A. 101:14240-14245(2004)
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Atkins T., Crossman L.C., Pitt T., Ch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUCLEOTIDE SEQUENCE
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61
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                                                                                                                                                          Similarity
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PAELLGYFDS
                                                             PWELVGYFDS
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75.0%;
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                                                                                                                           Score 43; DB
Pred. No. 46;
1; Mismatches
                                                                                                                                                                                                                                                                 Genomic DNA.
A4DEA84C59107CF2 CRC64;
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annotation update)
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her C., Mungall K.L.,
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RESULT 9 Q7UYR6_RHOBA

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Best Local :
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Q1-NOV-1995 (Rel. 32, Created)
28-PEB-2003 (Rel. 41, Last sequence update)
13-SEP-2005 (Rel. 48, Last amotation update)
Hypothetical protein B0228.4 in chromosome
ORFNames=B0228.4/B0228.2;
Caenorhabditis elegans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAEEL
                                                                                                                                                                                                                                          The C. elegans sequencing consort "Genome sequence of the nematode investigating biology."; Science 282:2012-2018(1998).
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EMBL; BX294133; CAD71575.1; -; Genomic DNA.
GO; GO:0020037; F:heme binding; IEA.
GO; GO:0006118; P:electron transport; IEA.
                  This Swiss-Prot entry is copyright. It is produced through a collaboratio between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it use as long as its content is in no way modified and this statement is no
                                                                                                                                  WormBase consortium; Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                           [2]
SEQUENCE REVISION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR012282; Cytochrome_C_R.
InterPro; IPR011444; DUF1549.
InterPro; IPR011429; PSC3.
Pfam; PF07635; PSCyt1; 1.
Pfam; PF07583; PSCyt2; 1.
Pfam; PF07587; PSD1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=22735913; PubMed=12835416; DOX=10.1073/pnas.1431443100; Gloeckner F.O., Kube M., Barer M., Teeling H., Lombardot T., Ludwig W., Gade D., Beck A., Borzym K., Heitmann K., Rabus R., Schlesner H., Amann R., Reinhardt R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bacteria; Planctomycetes; Planctomycetaceae; Pirellula.
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01-MAR-2004 (TrEMBLrel.
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                                                                                                                                                                                                                                                                                                                                                  MEDLINE=99069613; PubMed=9851916;
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8; Conserv
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1201 AA; 134482 MW; 7286B27735130D01 CRC64;
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72.7%;
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nosome II.
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RESULT 12
Q74888 GEOSL
ID 074888 G
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DT 05-JUL-2
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Q5WRU1_CAEEL
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Best Local
          Q748S8 GEOSL PRELIMINARY; PRT; 272 AA.
Q748S8;
Q748S8;
Q748S8;
Q748S8;
Q748S8;
Q748C8;
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QSWRU1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WormBase, WBGene00015061; B0228.4.

WormPep; B0228.4c; CB37470.

InterPro; IPR010734; Copine.
InterPro; IPR02035; VWF A.

Pfam; PF07002; Copine; 1.

SMART; SM00327; VWA; 1.

Complete proteome; Hypothetical protein.

Complete proteome; Hypothetical protein.
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COMPBIAS
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Ensembl; B0228.4; Caenorhabditis elegans.
Wormbase; WBGene00015061; B0228.4.
Wormbep; B0228.4; CE31282.
InterPro; IPR010734; Copine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Rhabditidae; Pelode:
       Name=murI; OrderedLocusNames=GSU2923;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; U23168; AAU87832.1; -; General Ensembl; B0228.4; Caenorhabditis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Science
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       investigating biology.";
Science 282:2012-2018(1998).
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6; Conserva
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155 165 Cys-rich.
316 338 Lys-rich.
892 1019 Glu-rich.
                                                                                                                                                                                                                                                                                                                                                                                                                                               GPWELVGYFD
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38 Lys-rich.
19 Glu-rich.
183328 MW; 3B4EB46800B7A44D CRC64;
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Last annotation updat
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Pred. No. 1.5e+03;
2; Mismatches 2;
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itis elegans.
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Pred. No. 3
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3.2e+02
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GO; GO:0008853; F:isomerase activity; IEA.
GO; GO:0008152; P:metabolism; IEA.
GO; GO:0008152; P:metabolism; IEA.
GO; GO:0009252; P:peptidoglycan biosynthesis; IEA.
InterPro; IPR001920; Asp/Glu_race.
InterPro; IPR001920; Asp/Glu_race.
InterPro; IPR001921; Glu_race.
IPR001921; Asp Glu_race; 1.
Pfam; PF01177; Asp Glu_race; 1.
ITGRFAMs; TIGR00067; glut_race; 1.
PROSITE; PS00924; Asp GLU_RACEMASE 1; 1.
PROSITE; PS00924; ASP GLU_RACEMASE 2; 1.
PROSITE; PS00924; ASP GLU_RACEMASE 3; 1.
Query Match
Best Local
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Q6K1T5_C
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PubMed=14671304; DOI=10.1126/science.1088727;

Methe B.A., Nelson K.E., Eisen J.A., Paulsen I.T., Nelson W.C.,

Heidelberg J.F., Wu D., Wu M., Ward N.L., Beanan M.J., Dodson R.J.,

Madupu R., Brinkac L.M., Daugherty S.C., DeBoy R.T., Durkin A.S.,

Gwinn M.L., Kolonay J.F., Sullivan S.A., Haft D.H., Selengut J.,

Davidsen T.M., Zafar N., White O., Tran B., Romero C., Forberger H.J.

Weidman J.F., Khouri H.M., Feldblyum T.V., Utterback T.R.,

Van Aken S.E., Lovley D.R., Fraser C.M.;

Van Aken Geobacter sulfurreducens: metal reduction in subsurface
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein OSJNBa0038P01.38.
Name=OSJNBa0038P01.38;
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Bacteria; Proteobacteria; Deltaproteobacteria; Desulfuromonadales;
Geobacteraceae; Geobacter.
                                                                                                                                                                                                                                                                                                                                                                                clone:OSJNBa0038P01.";
Submitted (MAY-2003) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oryza sativa (japonica cultivar-group).
Bukaryota; Viridiplantae; Streptophyta; Em
Spermatophyta; Magnoliophyta; Liliopsida;
Ehrhartoideae; Oryzeae; Oryza.
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                                                                                                                    Hypothetical SEQUENCE 36
                                                                                                                                                                                                                                                                                                      Gramene; Q6K1T5; -
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                                                                                                                                                                                                                             GO; GO:0006512; P:ubiquitin cycle; InterPro; IPR001810; F-box.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=39947;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sasaki T., Matsumoto T., Katayose
"Oryza sativa nipponbare(GA3) geno
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                                                                                                                                                                                          PF00646; F-box; 1.
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                                          Length 381;
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DT 01-MAR-2
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DE Methyl-a
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STRAIN-CZA / ATCC 35395 / DSM 2834;

MEDLINE=21929760; PubMede=11932238; DOI=10.1101/gr.223902;

Galagan J.E., Nusbaum C., Roy A., Endrizzi M.G., Macdonald P.,

Galagan J.E., Nusbaum C., Roy A., Endrizzi M.G., Macdonald P.,

FitzHugh W., Calvo S., Engels R., Smirnov S., Atnoor D., Brown A.,

Allen N., Naylor J., Stange-Thomann N., DeArellano K., Johnson R.,

Linton L., NcEwan P., McKernan K., Talamas J., Tirrell A., Ye W.,

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Hedderich R.D., Cann I., Graham D.E., Grahame D.A., Guss A.M.

Hedderich R., Ingram-Smith C., Kuettner H.C., Krzycki J.A.,

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Pritchett M., Sowers K.R., Swanson R.V., Zinder S.H., Lander E.,
                                                      Rhee J.H.,
Choy H.E.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Perry J.G., Jarrell K.r., Critchett M., Sowers K.R., Metcalf W.W., Birren B.R.
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                                                                                                                                                                                                                                                                                                                  01-MAR-2003 (TrEMBLrel. 23,
01-MAR-2003 (TrEMBLrel. 23,
01-JUN-2003 (TrEMBLrel. 24,
Methyl-accepting chemotaxia
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  "Complete genome sequence
Submitted (DEC-2002) to the
                                                                                                                                                                                                                                        Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                 Vibrio vulnificus.
                                                                                                                                                                                                                                                                                               OrderedLocusNames=VV12747;
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TIGREAMs; TIGR01908; cas_CXXC_CXXC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and physiological diversity.";
Genome Res. 12:532-542(2002).
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Archaea; Euryarchaeota; Methanomicrobia; Methanosarcinales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OrderedLocusNames=MA3668;
                                                                                                       STRAIN=CMCP6;
                                                                                                                                   NUCLEOTIDE SEQUENCE
                                                                                                                                                                                 NCBI_TaxID=672;
                                                                                                                                                                                                               Vibrionaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AE011076; AAM07023.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "The genome of Methanosarcina acetivorans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE
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he EMBL/GenBank/DDBJ d
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DR HSSP; PD2942; 1007.

DR HSSP; PD2942; 1007.

DR GO; GC:0019866; C:inner membrane; IEA.

DR GO; GC:0016021; C:integral to membrane; IEA.

DR GO; GC:0016021; C:integral to membrane; IEA.

DR GO; GC:0004871; F:signal transducer activity; IEA.

DR GO; GC:0004871; F:signal transducer activity; IEA.

DR GO; GC:00004871; F:signal transducer activity; IEA.

DR GO; GC:0007165; P:signal transducer.

DR GO; GC:0007165; P:signal transducer.

DR InterPro; IPR004089; Chmtaxis transd.

DR InterPro; IPR004089; Chmtaxis transd.

DR Pfam; PP00615; MCPsignal; 1.

DR SMART; SM00281; MA; 1.

DR SMART; SM00281; MA; 1.

DR SMART; SM00281; MA; 1.

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DR PROSITE; PS50885; HAMP; 1.

Complete proteome.

SQ SEQUENCE 578 AA; 63178 MW; 55004ADC7356DA18 CRC64;

Query Match

Best Local Similarity 75.0%; Pred. No. 1.7e+02;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Query Match

Best Local Similarity 75.0%; Pred. No. 1.7e+02;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Query Match

DD 204 WELIGYID 211

Search completed: December 4, 2005, 04:52:22

Job time: 102.375 secs
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Result
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
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    US-09-451-616-10836
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Sequence 3, Appli
Sequence 1425, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 10836, A
Sequence 4, Appli
Sequence 4, Appli
Sequence 15261, A
Sequence 162, App
Sequence 163, App
Sequence 163, App
Sequence 163, App
Sequence 13916, A
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US-08-264-093-17
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PRIOR APPLICATION DATA: No. 563;
PRIOR APPLICATION DATA: No. 563;
PRIOR APPLICATION INFORMATION:
NAME: Lake, James R.
REGISTRATION NUMBER: NOVO:
REGISTRATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 868-1482
TELEPAX: (416) 362-0823
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
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Best Local S
Matches 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Michael D. Dan
TITLE OF INVENTION: CELL CY
TITLE OF INVENTION: CELL CY
TITLE OF INVENTION: ANTIGEN
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: M5H 2J7
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.4 Mb storage
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS-DOS 6.00
SOFTWARE: ASCII Editor
                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 2300 KICHMOIM STREET West STREET: 101 Richmond Street West CITY: Toronto
                                                                                                                                                                LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: not appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: Ontario COUNTRY: Canada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Ridout & Maybee STREET: 2300 Richmond-Adelaide Centre
                                                   Similarity 6; Conserv
GPWELVGYFD 10
                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Canada
                                                                                                                                                                not applicable
                                                                   62.1%;
60.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HUMAN MONOCLONAL ANTIBODIES SPECIFIC CELL CYCLE-INDEPENDENT GLIOMA SÜRFACE ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US/08264093
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                                                                                                                                                                                                                                                                                                                      NOVOP/106A/7551
                                                                       Score 41; DB 1;
Pred. No. 0.51;
                                                                                                                                                                                                                                                                                                                                                                                             5639863 applicable
                                                       Mismatches
                                                                                       Length 12;
                                                     Indels
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GVWDLLNYFD

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RESULT 3
US-09-902-540-14253
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Patent No. 5639863
GENERAL INFORMATION:
APPLICANT: Michael D. Dan
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR APPLICATION DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 14253
LENGTH: 274
                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                 Sequence 14253, Appended No. 6833447
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FILING DATE:
CLASSIFICATION: 536
CLASSIFICATION: 536
PRIOR APPLICATION DATA: No. 5639863 applicable
ATTORNEY/AGENT INFORMATION:
NAME: Lake, James R.
REGISTRATION NUMBER: 31081
REFERENCE/DOCKET NUMBER: NOVOP/106A/7551
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 1060-1482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (416) 362-0823;
INPORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 121 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC Compate OPERATING SYSTEM: MS-DC SOFTWARE: ASCII Editor CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS
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Local Similarity 60.0%;
es 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: not
TOPOLOGY: linear
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2300 Richmond-Adelaide Centre
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Pred. No. 6.7;
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                                                                                                                         US-09-431-367B-5
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US-09-431-367B-5
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GENERAL INFORMATION:
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                                                                                                                                                                                       SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 5
                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: CUTTIE, ROTY A.J.
TITLE OF INVENTION: NOVEL POTASSIUM CHANNEL MOLECULES AND USES THEREFOR FILE REFERENCE: MNI-074CP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local 9
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                                                         Best Local Similarity Matches 7; Conserv
                                                                                         Query Match
                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/431,367B
CURRENT FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: 09/259,951
PRIOR FILING DATE: 1999-03-01
NUMBER OF SEQ ID NOS: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR FILING DATE: 01-03
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: MNI-074CP2
CURRENT APPLICATION NUMBER: US/09/561,763
CURRENT FILING DATE: 2000-04-29
PRIOR APPLICATION NUMBER: 09/431,367
PRIOR PILING DATE: 01-11-199
PRIOR APPLICATION NUMBER: US 09/259,951
PRIOR APPLICATION NUMBER: US 09/259,951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Curtis, ROTY A.J. et al.
TITLE OF INVENTION: NOVEL POTASSIUM CHANNEL MOLECULES AND USES THEREFOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                       TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 332
                                                                                                                                                                      LENGTH: 332
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                               1 GPWELVGYF 9
GRWELVGSF 107
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                                                              Conservative
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S: 12
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77.8%;
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77.8%;
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                                                            0; Mismatches
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Pred. No. 72;
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Pred. No. 38;
                                                                            Score 38; DB Pred. No. 72;
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RESULT 6

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GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

PRIOR FILING DATE: 2000-09-08
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US-09-976-594-4
; Sequence 4, Application US/09976594
; Patent No. 6673549
; Patent No. 6673749
                                                                                                   RESULT 8
US-09-902-540-15261
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                           US-09-976-594-4
GENERAL INFORMATION:
APPLICANT: Goldman,
APPLICANT: Hinkle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10836
                                                          Sequence 15261, Application US/09902540 Patent No. 6833447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 57.6%;
Best Local Similarity 60.0%;
Matches 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Furness, Michael
APPLICANT: Buchbinder, Jenny
TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
FILE REFERENCE: PA-0041 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/976,594
CURRENT FILING DATE: 2001-10-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 1143
SOFTWARE: PERL Program
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/240,409
PRIOR FILING DATE: 2000-10-12
                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Inc
                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 1207
TYPE: PRT
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Pred. No. 1.1e+02.
1; Mismatches
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Pred. No. 3.1e+02;
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APPLICANT: Wong, Gordon G.

APPLICANT: Clark, Hilary

APPLICANT: Fechtel, Kim

APPLICANT: Agostino, Michael J.

APPLICANT: Agostino, Michael J.

APPLICANT: Genetics Institute, Inc.

APPLICANT: Genetics Institute, Inc.

PILE REFERENCE: G1 6300-11A

CURRENT APPLICATION NUMBER: US/09/311,021

CURRENT FILING DATE: 1999-05-13

NUMBER OF SEQ ID NOS: 268

SOPTWARE: PATENTIN Ver. 2.0

SEQ ID NO 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sec
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 15261
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US-09-311-021-162
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US-09-543-681A-6615
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: GARY BREYON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
PRIOR FILING DATE: 1999-04-09
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 6615
                                                                                                                                                                                                                                                                                                              Patent No. 6706869
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 6615, Application US/09543681A Patent No. 6605709
                                                                                                                                                                                                                                                                                                                                                     Sequence 162, Application US/09311021
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TYPE: PRT
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TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                             155 WALIGYYOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 55.6%;
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66.7%;
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Pred. No. 1.7e+02;
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Pred. No. 1.5e+02;
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US-09-902-540-13916
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US-09-698-341-29
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               Query Match
Best Local Similarity
Matches 6; Conserve
                                                                                                  ; ORGANISM: Myxococcus xanthus
US-09-902-540-13916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Sorge, Jo
APPLICANT: Hurlbut I
APPLICANT: Connie, I
TITLE OF INVENTION:
                                                                                                                                                                                                                                  Sequence 13916, Application US/09902540
Patent NO. 6833447
GENERRAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myysococus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10(15849)B
CURRENT FILING DATE: 2001-07-10
CURRENT FILING DATE: 2001-07-10
CURRENT FILING DATE: 2001-07-10
                                                                                                                                                                 PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 13916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local :
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SEQ ID NO 29
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NAME/KEY: UNSURE
LOCATION: (92)..(92)
OTHER INFORMATION: X = U
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FILE REFERENCE: 25436/1560
CURRENT APPLICATION NUMBER: US/09/698,341
CURRENT FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: 60/162,600
PRIOR FILING DATE: 1999-10-29
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ORGANISM: Thermococcus
                                                                                                                                                   ENGTH: 174
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Local Similarity 50.0%;
es 5; Conservarion
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No. 6946273
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Hurlbut Hogrefe, Holly
Connie, Hansen
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                                   Conservative
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                                                 54.5%;
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Pred. No. 59;
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Pred. No.
                                                 Score 36;
Pred. No.
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                                   Mismatches
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                                                                Length 174;
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US-08-260-202A-15
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US-08-260-202A-24
; Sequence 24, Application US/08260202A
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GENERAL INFORMATION:
APPLICANT: Deretic, Vojo
APPLICANT: Martin, Daniel W.
APPLICANT: MARTIN, DETECTION OF CONVI
TITLE OF INVENTION: PSEUDOMONAS AERUG:
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P. O. Box 4433
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                                                                                                                                                   Patent No. 5573910
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APPLICANT: Deretic, Vojo
APPLICANT: Martin, Daniel W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: (512) 418-3000
TELEPAX: (512) 474-7577
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 194 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 08/017
FILING DATE: 12-FEB-1993
ATTORNEY/AGENT INFORMATION:
NAME: Hodgins, Daniel S.
REGISTRATION NUMBER: 31,026
REFERENCE/DOCKET NUMBER: UTSK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATION
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US 08/260,202 FILING DATE: 15-JUN-1994 PRIOR APPLICATION DATA:
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P. O. Box 4433
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                               54.5%;
Local Similarity 71.4%;
tes 5; Conservativo
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ZIP: 77210-4433
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                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
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5, 5573910
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Pred. No.
                                                                    OF CONVERSION TO MUCCIDY IN AS AERUGINOSA INFECTING CYST
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Length 194;

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Gaps

0

CYSTIC FIBROSIS PATIENTS

CITY: Houston STATE: TX

TX

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TOPOLOGY:
US-08-260-202A-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Hodgins, Daniel S.
REGISTRATION NUMBER: 31,026
REFERENCE, DOCKET NUMBER: UTSK:221\HOD
TELECOMMUNICATION INFORMATION:
TELEPAN: (512) 418-3000
TELEPAX: (512) 474-7577
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 194 amino acids
TYPE: amino acid
STRANDENNESS:
TODGICOY. 110025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 15, Application US/08017114

Patent No. 5591838

GENERAL INFORMATION:
APPLICANT: Deretic, Vojo
APPLICANT: Martin, Daniel W.
TITLE OF INVENTION: DETECTION OF CONVERSION TO MUCOIDY IN
TITLE OF INVENTION: PSEUDOMONAS AERUGINOSA INFECTING CYSTIC FIBROSIS PATIENTS
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/017,114
FILING DATE: 1930012
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: HOdgins, Daniel S.
REGISTRATION NUMBER: 31,026
REFERENCE/DOCKET NUMBER: UTSK:205/HOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 54.5%; Score 36; DB 1; Length 194; Best Local Similarity 71.4%; Pred. No. 91; Matches 5; Conservative 1; Mismatches 1; Indels
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FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,202
FILING DATE: 15-UN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/017,114
FILING DATE: 12-FEB-193
ATTORNEY/AGENT INFORMATION:
ADME: UG4610 DATA:
ADME: UG4610 DATA:
ADME: US 08/017,114
FILING DATE: 12-FEB-193
ATTORNEY/AGENT INFORMATION:
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ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P. O. Box 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                 CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
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81 GPWRMVG 87
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LENGTH: 194 amino acids
TYPE: AMINO ACID
TYPE: MYINO ACID
TRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-017-114-15
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                                                       Query Match 54.5%;
Best Local Similarity 71.4%;
Matches 5; Conservative
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TELEPHONE: 512/320-7200
TELEPAX: 512/474-7577
TELEX: N/A
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
81 GPWRMVG 87
                    1 GPWELVG 7
                                                                        Score 36; DB
Pred. No. 91;
                                                           Mismatches
                                                                                        DB 1;
                                                          <u>ب</u>
                                                                                     Length 194;
                                                           Indels
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                                                          Gaps
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Search completed: December 4, Job time : 23.6042 secs 2005, 04:09:43

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Result
No.
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Perfect score:
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Maximum Match 10
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1: /ggn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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US-10-425-115-253365
US-10-425-122A-48377
US-10-427-963-187947
US-10-427-963-187949
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                  APPLICANT: OMURA, SATOSHI
APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: HORIKAWA, HIROSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SAKAKI, YOSHIYUKI
APPLICANT: HATTORI, MASAHIRA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-262
                                                                                                                                                                                                                                                    Sequence 9341, Application US/10156761 Publication No. US20030119018A1 GENERAL INFORMATION:
  CURRENT APPLICATION NUMBER: US/10/156,761
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Sequence 53925,	Sequence 230098	Sequence 60011,	Sequence 205846	Sequence 141911	Sequence 150254	Sequence 277808	Sequence 3713,	Sequence 111662	Sequence 121132	Sequence 204079	Sequence 22383,	Sequence 22382,	Sequence 50763,	Sequence 46814,	Sequence 121136	Sequence 10546,	Sequence 194057
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ALIGNMENTS

### ; OTHER INFORMATION: single chain antibody fragment US-10-632-706-128 RESULT 1 US-10-632-706-128 APPLICANT: MARKS, JAMES D. APPLICANT: AMERSDORFER, PETER APPLICANT: AMERSDORFER, PETER TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM TITLE OF INVENTION: NEUROTOXINS FILE REFERENCE: 407T-895120US CURRENT APPLICATION NUMBER: US/10/632,706 CURRENT FILING DATE: 2003-08-01 PRIOR APPLICATION NUMBER: US 60/400,721 PRIOR APPLICATION NUMBER: US 60/400,721 PRIOR APPLICATION NUMBER: US 60/400,721 PRIOR FILING DATE: 2002-08-01 PRIOR FILING DATE: 2002-08-01 PRIOR FILING DATE: 1998-08-31 NUMBER OF SEQ ID NOS: 278 SOPTWARE: PATENTIN VERSION 3.2 SEQ ID NO 128 LENGTH: 11 Sequence 128, Application US/10632706 Publication No. US20040175385A1 GENERAL INFORMATION: Query Match 100.0%; Best Local Similarity 100.0%; Matches 11; Conservative 0 TYPE: PRT ORGANISM: Artificial FEATURE: ۳ 1 GPWELVGYFDS 11 **GPWELVGYFDS** 11 <u>.</u>. Score 66; DB 4; Pred. No. 0.00072; Mismatches Length 11; Indels 0, Gaps 0

2002-05-29

JP 2001-204089

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LENGTH: 290
TYPE: PRT
ORGANISM: Streptomyces avermitilis
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PRIOR FILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 15109
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PRIOR APPLICATION NUMBER: JP :
PRIOR FILING DATE: 2001-05-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed -
NUMBER OF SEQ ID NOS: 78614
                                                                                                                                                                                                                                                                                                                                                    PRIOR
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PRIOR FILING DATE: 2000-05-26
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                                                                    ORGANISM: Salmonella
                                                                                                      LENGTH: 306
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APPLICATION NUMBER: 60/230,335
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APPLICATION NUMBER: 60/253,625
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APPLICATION NUMBER: 60/230,347
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                                                                                                                                                                                                                                                                                                FILING DATE: 2000-11-27
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Zyskind, Judith
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Malone, Cheryl
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Trawick, John
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PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/267,636

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

Remaining Prior Application data removed - See

NUMBER OF SEQ ID NOS: 78614

SEQ ID NO 74966

LENGTH: 367
RESULT 5
US-10-282-122A-75801
; Sequence 75801, Application US/10282122A
; Publication No. US20040029129A1
; Publication No. US20040029129A1
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                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                         Query Match
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CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR APPLICATION NUMBER: 60/206,848
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APPLICANT: Zamu
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PRIOR APPLICATION NUMBER: 60/253,625
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PRIOR FILING DATE: 2000-05-26
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                                                                                                                                                                                                                                                                                               ORGANISM: Salmonella typhimurium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RIOR FILING DATE: 2000-11-27
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les 9; Conserv
                                                                                                                                    127 GPWELVLGPFGYF 139
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Zyskind, Judith
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Pred. No.
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APPLICANT: Wang, Liar APPLICANT: Zamudio,

Liangsu

Ohlsen, Kari

Haselbeck, Robert

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TITLE OF INVENTION: Identification of Essential Genes in FILE REPERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR FILING DATE: 2000-03-23

PRIOR FILING DATE: 2000-05-23

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-05-06

PRIOR FILING DATE: 2000-09-06
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Best Local
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APPLICANT:
APPLICANT:
                                                           APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
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APPLICANT:
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 192224
LENGTH: 381
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
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PRIOR PILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
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ORGANISM: Salmonella typhi
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FILING DATE: 2000-11-27
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FILING DATE: 2000-12-22
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Yamamoto, Robert
Forsyth, R.
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Trawick, John
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APPLICANT: Cao Yongwei
TITLE OF INVENTION: Spy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5323)B
CURRENT APPLICATION UNMEER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 186545
LENGTH: 171
TYPE: "--
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Query Match
Best Local Similarity
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                                                                        ; OTHER INFORMATION: Clone US-10-424-599-186545
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CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 253365
LENGTH: 125
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Best Local Similarity 75.0
Conservative
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Best Local Similarity
Matches 6; Conserv
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Zea mays
                                                                                                       ORGANISM: Glycine FEATURE:
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75.0%;
                                                                                       ID: PAT_MRT3847_139463C.1.pep
                2;
              Score 41; DB 4;
Pred. No. 1e+02;
2; Mismatches
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Pred. No. 1.5e+02;
1; Mismatches 1
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Pred. No. 78;
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GPWDEMKYFD 23

GPWELVGYFD

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Query Match
Best Local Similarity
Tatches 6; Conserve
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US-10-282-122A-48377
                                                 US-10-437-963-187947; Sequence 187947, Application US/10437963; Publication No. US20040123343A1; GENERAL INFORMATION:
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                                                                                                                             RESULT 10
                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Bacteroides fragilis US-10-282-122A-48377
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SOPTWARE: PatentIn version 3.1
SEQ ID NO 48377
LENGTH: 475
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Publication No. US20040029129A1
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APPLICANT:
APPLICANT:
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APPLICANT: La Rosa, Thomas J. APPLICANT: Kovalic, David K. APPLICANT: Zhou, Yihua
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PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
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                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
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APPLICATION NUMBER: 60/267,636
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APPLICATION NUMBER: 60/230,335
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/257,931
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FILING DATE: 2000-11-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/242,578
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                                                                                                                                                                                    404
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Malone, Cheryl
Haselbeck, Robert
Ohlsen, Kari
Zyskind, Judith
                                                                                                                                                                                    GDWKLIYYYDS 414
                                                                                                                                                                                                                      GPWELVGYFDS 11
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Trawick, John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Yamamoto, R. Forsyth, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Carr, Grant
                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                            62.1%;
                                                                                                                                                                                                                                                                            Score 41; DB 4;
Pred. No. 2.7e+02;
                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                             Length 475;
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                                                                                                                                                                                                                                                          Gaps
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APPLICANT: Ricke, Darrell
APPLICANT: Ricke, Darrell
FILE OF INVENTION: IDENTIFICATION AND CHARACTERIZATION OF PLANT GENES
FILE REFERENCE: 60148USPCT
CURRENT APPLICATION NUMBER: US/10/481,032A
CURRENT PILING DATE: 2003-12-16
PRIOR APPLICATION NUMBER: US 60/300,112
PRIOR APPLICATION NUMBER: US 60/325,277
PRIOR FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/325,277
PRIOR APPLICATION NUMBER: US 60/325,277
PRIOR APPLICATION NUMBER: US 60/342,327
PRIOR FILING DATE: 2001-02-06-21
NUMBER OF SEQ ID NOS: 1201
SOCTWARE: PACENTIN Ver: 2.2
SEQ ID NO 252
LENGTH: 792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
US-10-481-032A-252
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LENGTH: 475
TYPE: PRT
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APPLICANT:
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APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21 (53221) B CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Zhu, Tong
APPLICANT: Cheng, W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                        FEATURE: MISC_feature NAME/KEY: misc_feature LOCATION: (12)...(14) OTHER INFORMATION: Xea =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Clone ID: PAT_MRT4530_845C.1.pep
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LOCATION: (1)..(475)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
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                                                                                                                                                        TYPE: PRT
ORGANISM: Oryza sativa
NAME/KEY: misc_feature
LOCATION: (16)..(16)
                                               FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             62.1%;
Local Similarity 70.0%;
es 7; Conservation
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Wu, Wei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Moughamer, Todd
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Barbazuk, Brad
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Briggs, Steven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kreps, Joel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Katagiri,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Boukharov,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ping
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fumiaki
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                                                                    any
                                                                    naturally occuring amino acid
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Query Match
Best Local Similarity
Thes 7; Conserva
                                                                                              ; ORGANISM: DROSOPHILA US-11-097-143-29418
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US-11-097-143-29418
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US-10-481-032A-252
                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR PELICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR PELICATION NUMBER: 60/173,383
PRIOR PELICATION NUMBER: 60/173,383
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR PILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR PILING DATE: 2000-03-23
PRIOR PILING DATE: 2000-03-23
PRIOR FILING DATE: 2000-03-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 29418, Application US/11097143 Publication No. US20050208558A1 GENERAL INFORMATION:
                                                                                                                                                         SEQ ID NO 29418
LENGTH: 1352
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Matches
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                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Venter, J. Craig
APPLICANT: et al.
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
TITLE OF INVENTION: DROSOPHILA GENES.
FILE REFERENCE: CL000728
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR FILING DATE: 1999-10-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/11/097,143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT FILING DATE: 2005-04-04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: misc feature LOCATION: (399)..(399)
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LOCATION: (671)..(671)
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                  Conservative
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              Score 41; DB 6; Length 1352; Pred. No. 7.2e+02; O; Mismatches 2; Indels
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Pred. No.
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Query Match
Best Local Similarity
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                                                                                                                              ; OTHER INFORMATION: Clone ID: MRT4577_54590C.1.pep US-10-425-115-319649
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US-10-424-599-182764
; Sequence 182764, Application US/10424599
; Publication No. US20040031072A1
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APPLICANT: Canosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Chou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5323)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 182764
LENGTH: 50
                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 319649
LENGTH: 78
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                                                                 Matches
                                                                              Query Match
Best Local
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                                                                                                                                                                                                                                                                                                     APPLICANT: La ROSa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
                                                                                                                                                                                                 LENGTH: 78
TYPE: PRT
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ORGANISM: Glycine max
                                                                                                                                                                FEATURE:
                                                                                                                                                                              ORGANISM: Zea mays
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                            1 GPWELVGYF 9
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                                                              Similarity 6; Conserv
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GPWVLAGWF 29
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                                                                 Conservative
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                                                                                66.7%;
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Pred. No. 48;
2; Mismatches
                                                                                Pred. No. 73;
                                                                                                DB 4;
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                                                                                              Length 78;
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                                                                 Indels
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RESULT 15 US-10-477-527-21

Sequence 21, Application US/10477527 Publication No. US20040171807A1

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GENERAL INFORMATION:
APPLICANT: The Trustees of the University of Pennsylvania
APPLICANT: Gao, Guangping
APPLICANT: Milson, James M.
TITLE Gao, Guangping
APPLICANT: Wilson, James M.
TITLE OF INVENTION: Method for Rapid Screening of Bacterial Transformants and Novel S
TITLE OF INVENTION: Adenovirus Proteins
FILE REFERENCE: UPN-N0530PCT
CURRENT FILING DATE: 2003-11-21
PRIOR PILING DATE: 2003-11-21
PRIOR PILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/300,501
PRIOR PILING DATE: 2001-06-22
PRIOR PILING DATE: 2001-06-04
NUMBER OF SEQ ID NOS: 41
SOFTWARE: Patentin version 3.1
SEQ ID NO 21
SEQ ID NO 21
SEQ ID NO 21
LENGTH: 146
TYPE: PRT
ORGANISM: Chimpanzee C68 adenovirus protein
PEATURE:
NAME/KEY: MISC FEATURE
AMES/KEY: MIS
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Search completed: December 4, 2005, 04:37:29
Job time : 79.8333 secs
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101 GPWEVVG 107
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Minimum
Maximum
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DB seq
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1: /cgn2_6/ptodata/1/pubpaa/USO9_NEW_PUB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/USO6_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/USO6_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
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length: 2000000000
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66
1 GPWELVGYFDS 11
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16.417 Million cell updates/sec
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Maximum Match 100%
Listing first 45 summaries
  Copyright
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  GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
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US-10-467-657-6026
US-10-467-657-7528
US-10-467-657-1210
US-11-074-176-36
US-10-467-657-1916
US-10-841-129-2
US-11-082-389-302
US-11-082-389-302
US-11-082-389-302
US-11-085-822-76
US-11-055-822-76
US-11-055-822-76
US-11-134-244-52
US-11-147-047-34
US-11-147-047-34
US-11-147-047-34
US-11-144-380-6
US-10-719-311-16
US-11-184-380-2
US-11-184-380-2
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US-11-184-380-2
US-11-184-380-2
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US-11-184-380-2
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Sequence 6026, Apsender 7528 Appl Sequence 1210, Appl Sequence 1916, Appl Sequence 2, Appli Sequence 2, Appli Sequence 304, Appli Sequence 304, Appl Sequence 76, Appl Sequence 77, Appl Sequence 72, Appl Sequence 72, Appl Sequence 73, Appl Sequence 4150, Appl Sequence 18, Appl Sequence 1930, Appl Sequence 1930, Appl Sequence 24, Appli Sequence 24, Appli Sequence 1930, Appl Sequence 1930, Appl Sequence 228, Appl
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Gaps  Gaps	RESULT 2 US-10-467-657-7528    Sequence 7528, Application US/10467657   Publication No. US20050260581A1   GENERAL INFORMATION:   APPLICANT: CHIRON SpA   APPLICANT: PIZZA MARIAGRAZIA   APPLICANT: MASIGNANI Vega   APPLICANT: MONACI Elisabetta   TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS   FILE REFERENCE:   CURRENT APPLICATION NUMBER: US/10/467,657   CURRENT FILING DATE: 2003-08-11   PRIOR APPLICATION NUMBER: GB-0103424.8	Query Match S4.5%; Score 36; DB 6; Length 792; Best Local Similarity 75.0%; Pred. No. 27; Matches 6; Conservative 2; Mismatches 0; Indels 0; Qy 4 ELVGYFDS 11   :   : Db 390 ELLGYFDN 397	RESULT 1 US-10-467-657-6026 US-10-467-657-6026 Sequence 6026, Application US/10467657 Publication No. US20050260581A1 GENERAL INFORMATION: APPLICANT: CHIRON SPA APPLICANT: FONTANA Maria Rita APPLICANT: MASIGNANI Vega APPLICANT: MASIGNANI Vega APPLICANT: MONACI Elisabetta TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS FILE REFERENCE: CURRENT APPLICATION NUMBER: US/10/467,657 CURRENT FILING DATE: 2003-08-11 PRIOR APPLICATION NUMBER: GB-0103424.8 PRIOR FILING DATE: 2001-02-12 NUMBER OF SEQ ID NOS: 9218 SOFTWARB: SeqWin99, version 1.04 SEQ ID NO 6026 LENGTH: 792 TYPE: PRT ORGANISM: Neisseria gonorrhoeae	ALIGNMENTS	26 31 47.0 290 6 US-10-793-626-214 Sequence 27 31 47.0 393 6 US-10-821-234-1292 Sequence 28 31 47.0 490 6 US-10-131-826A-310 Sequence 29 31 47.0 626 6 US-10-467-657-7618 Sequence 30 31 47.0 626 6 US-10-467-657-7618 Sequence 31 47.0 746 7 US-11-109-156-14 Sequence 31 31 47.0 746 6 US-10-522-789-2 Sequence 31 31 47.0 746 6 US-10-522-789-2 Sequence 31 31 47.0 746 6 US-10-522-789-2 Sequence 31 31 47.0 746 6 US-10-665-455-11 Sequence 31 31 45.5 180 6 US-10-665-455-11 Sequence 31 30 45.5 180 6 US-10-979-821-2 Sequence 31 30 45.5 389 6 US-10-979-821-2 Sequence 31 30 45.5 389 6 US-10-979-821-2 Sequence 31 30 45.5 450 6 US-10-793-626-3116 Sequence 31 30 45.5 450 6 US-10-858-2-80 Sequence 31 45.5 450 6 US-10-858-730-8 Sequence 31 45.5 450 6 US-10-858-730-8 Sequence 31 45.5 45.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 185.7 1
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PRIOR FILING DATE: 2001-02-12

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NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 7528
LENGTH: 792
TYPE: PRT
ORGANISM: Neisseria gonorrhoeae
US-10-467-657-7528
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(CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GBG-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 1210
LENGTH: 356
TYPE: PRT
ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1210
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US-10-467-657-1210
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CURRENT APPLICATION NUMBER: US/11/074,176
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: 60/551,161
PRIOR FILING DATE: 2004-03-08
NUMBER OF SEQ ID NOS: 381
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 36
LENGTH: 322
TYPE: DATE:
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                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                Sequence 36, Application US/11074176 Publication No. US20050250135A1
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                                                                                                                                                                                                              APPLICANT: Klaenhammer Todd R. APPLICANT: Russell, William M. APPLICANT: Altermann, Eric APPLICANT: McAuliffe, Olivia APPLICANT: Peril, Andrea Azcar
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APPLICANT: PIZZA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
                                                                                                                                                 APPLICANT: Altermann, Eric
APPLICANT: McAuliffe, Olivia
APPLICANT: Peril, Andrea Azcarate
TITLE OF INVENTION: Nucleic Acid Sequences Encoding
TITLE OF INVENTION: Stress-Related Proteins and Uses Therefore
FILE REFERENCE: 5051-694
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Local Similarity 75.0%;
les 6; Conservation
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2; Mismatches
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Pred. No. 27;
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Query Match
Best Local Similarity
Tatches 8; Conserve
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US-10-841-129-2
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SEQ ID NO 1916
LENGTH: 723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1916, Application US/10467657 Publication No. US20050260581A1 GENERAL INFORMATION:
                                                                                                              FILE REPERENCE: 02307E-145400US
CURRENT APPLICATION NUMBER: US/10/841,129
CURRENT FILING DATE: 2004-05-07
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 2, Application US/10841129
Publication No. US20050250113A1
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                                                                                                                                                                                                                               APPLICANT: Zuker, Charles S.
APPLICANT: Extendach, Isolda
APPLICANT: Hoon, Mark A.
APPLICANT: Ryba, Nicholas J. P.
APPLICANT: Zhang, Yifeng
APPLICANT: The Regents of the University of California
APPLICANT: The Government of the United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: A Mammalian Magnesium/Manganese Sensing G Protein
TITLE OF INVENTION: Coupled Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: GB-0103424.8 PRIOR FILING DATE: 2001-02-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
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APPLICANT: FONTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS FILE REFERENCE:
                                        TYPE: PRT ORGANISM: Homo sapiens FEATURE:
OTHER INFORMATION: human magnesium/manganese sensing OTHER INFORMATION: coupled receptor (GPCR) R5.24, Mg
                                                                                                ENGTH: 926
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 85.7 es 6; Conservative
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85.7%;
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53.3%;
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Pred. No.
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Pred. No. 25;
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80
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Query Match
Best Local Similarity
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US-11-037-829A-4
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SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 4
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
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CURRENT FILING DATE: 2005-01-18
PRIOR APPLICATION NUMBER: US 60/397,380
PRIOR FILING DATE: 2002-07-19
                                                                                                                                                                                                                                           APPLICANT: Haberhauer, Gregor
TITLE OF INVENTION: CONVNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
TITLE OF INVENTION: TRANSPORT
FILE REFERENCE: BGI-131CPCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Lukas, Ronald J.
TITLE OF INVENTION: Methods and Compositions Relating to Chimeric TITLE OF INVENTION: Nicotinic Receptor Subunits
FILE REFERENCE: T103 1520.PCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Targacept, Inc
APPLICANT: Catholic Healthcare
APPLICANT: Bencherif, Mercouane
APPLICANT: Lukas, Ronald J.
                                                                                       PRIOR APPLICATION NUMBER: US 09/603024
PRIOR FILING DATE: 2000-06-23
PRIOR PPLICATION NUMBER: US 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR PPLICATION NUMBER: US 60/143262
PRIOR FILING DATE: 1999-07-09
PRIOR FILING DATE: 1999-07-09
                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/11/082,389
CURRENT FILING DATE: 2005-03-16
                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Pompejus, Markus
APPLICANT: Kroger, Burkhard
APPLICANT: Schroder, Hartwi
                   PRIOR
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TYPE: PRT
ORGANISM: Homo sapien
APPLICATION NUMBER: US 60/151281 FILING DATE: 1999-08-27 APPLICATION NUMBER: DE 19930487.4 FILING DATE: 1999-07-01 APPLICATION NUMBER: DE 19930489.0
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Zelder, Oskar
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Pred. No. 4
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Pred. No. 70;
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; LOCATION: 4
; OTHER INFORMATION: Xaa = Phe,
US-11-082-389-302
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; ORGANISM: Corynebacterium glutamicum US-11-082-389-304
                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: BGI-131CPCN
CURRENT APPLICATION NUMBER: US/11/082,389
CURRENT FILING DATE: 2005-03-16
PRIOR APPLICATION NUMBER: US 09/603024
PRIOR PILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: US 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 60/143262
PRIOR APPLICATION NUMBER: US 60/143262
PRIOR FILING DATE: 1999-07-09
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: US 60/151281
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: DE 19930487.4
PRIOR FILING DATE: 1999-07-01
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PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19931550.7
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19932134.5
PRIOR FILING DATE: 1999-07-09
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19941379.7
PRIOR FILING DATE: 1999-08-31
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NUMBER OF SEQ ID NOS: 446
SEQ ID NO 302
LENGTH: 198
TYPE: PRT
                                                            SEQ ID NO 304
LENGTH: 281
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APPLICANT: Haberhauer, Gregor
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
TITLE OF INVENTION: TRANSPORT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Pompejus,
APPLICANT: Kroger,
APPLICANT: Schroder
                                                                                                   Remaining Prior Application data removed - NUMBER OF SEQ ID NOS: 446
                                                                                                                                             PRIOR APPLICATION NUMBER: DE 19941379.7 PRIOR FILING DATE: 1999-08-31
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                                             TYPE: PRT
                                                          LENGTH:
                                                                                                                                                                                             FILING DATE: 1999-07-09
                                                                                                                                                                                                               APPLICATION NUMBER: DE 19932134.5
                                                                                                                                                                                                                                   APPLICATION NUMBER: DE 19931550.7 FILING DATE: 1999-07-08
                                                                                                                                                                                                                                                                                  FILING DATE: 1999-07-08
                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: DE 19931549.3
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99 WQLIGY 104
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o. US20050244935A1
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RESULT 11
US-10-131-826A-60
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US-11-055-822-76
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PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141,031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 60/142,101
PRIOR FILING DATE: 1999-07-02
PRIOR APPLICATION NUMBER: 60/148,613
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Best Local S
Matches 4
                                        APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Mauree
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Eller
                                                                                                                                Sequence 60, Application US/10131826A Publication No. US20050245730A1 GENERAL INFORMATION:
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Publication No.
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PRIOR FILING DATE: 1999-07-08
Remaining Prior Application data removed - See File Wrapper or PALM NUMBER OF SEQ ID NOS: 1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/11/055,822
CURRENT FILING DATE: 2005-02-11
PRIOR APPLICATION NUMBER: 09/606,740
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TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
FILE REFERENCE: BGI-121CPCN
                         APPLICANT:
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TYPE: PRT
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APPLICATION NUMBER: 60/187,970
FILING DATE: 2000-03-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: DE 19931418.7
FILING DATE: 1999-07-08
APPLICATION NUMBER: DE 19931419.5
FILING DATE: 1999-07-08
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APPLICATION NUMBER: DE 19931415.2
FILING DATE: 1999-07-08
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Beresini, Maureen
DeForge, Laura
Desnoyers, Luc
Filvaroff, Ellen
Gao, Wei-Qiang
Gerritsen, Mary E.
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66.7%;
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Pred. No.
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US-11-055-822-72
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Best Local S
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                   CURRENT APPLICATION NUMBER: US/11/055,822
CURRENT FILING DATE: 2005-02-11
PRIOR APPLICATION NUMBER: 09/606,740
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141,031
PRIOR PILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 60/142,101
                                                                                                                                                                     APPLICANT: Haberhauer, Gregor
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
                                                                                                                                                                                                                         APPLICANT: Pompejus, Markus
APPLICANT: Kroger, Burkhar
APPLICANT: Schroder, Hartw
APPLICANT: Zelder, Oskar
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PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR FILING DATE: 1997-09-17
PRIOR FILING DATE: 1997-09-17
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PRIOR TILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: P3330R1C128
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT FILING DATE: 2002-04-24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                    FILE REFERENCE: BGI-121CPCN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
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TYPE: PRT
ORGANISM: Homo Sapien
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Schroder, Hartwig
Zelder, Oskar
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Godowski, Paul J.
Gurney, Austin L.
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Pred. No.
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APPLICATION NUMBER: 60/148,613 FILING DATE: 1999-08-12

APPLICATION NUMBER: 60/187,970 FILING DATE: 2000-03-09

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RESULT 13
US-11-113-424-52
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Matches 6; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 52, Application US/11113424
Publication No. US20050260713A1
GENERAL INFORMATION:
APPLICANT: Gangolli et al.
TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-225
CURRENT APPLICATION NUMBER: US/11/113,424
CURRENT FILLING DATE: 2005-04-21
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Best Local Similarity 100.
Matches 5; Conservative
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SEQ ID NO 52
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PRIOR FILING DATE: 1999-07-08

Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1158
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PRIOR APPLICATION NUMBER: 60/311,590
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                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                         ENGTH: 2725
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R FILING DATE: 1999-07-01

DR APPLICATION NUMBER: DE 19931415.2

OR FILING DATE: 1999-07-08

OR APPLICATION NUMBER: DE 19931418.7

OR FILING DATE: 1999-07-08

OR APPLICATION NUMBER: DE 19931419.5

OR APPLICATION NUMBER: DE 19931419.5

OR FILING DATE: 1999-07-08
                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/294,075
FILING DATE: 2001-05-29
APPLICATION NUMBER: 60/288,153
                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/315,617 FILING DATE: 2001-08-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 2000-12-20
APPLICATION NUMBER: 60/311,613
FILING DATE: 2001-08-10
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                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/322,358 FILING DATE: 2001-09-14
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1 GPWELVGYFD 10
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100.0%; Pred. No. 1.6e+02;
                                                                       50.0%;
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Pred. No. 2
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FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SegWin99, version 1.04
SEQ ID NO 4150
LENGTH: 456
PRIOR + 456
PRIOR + 456
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Publication No. US20050280581A1
GENERAL INFORMATION:
APPLICANT: CHIRON SpA
APPLICANT: FONTANA Maria Rita
APPLICANT: FIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
APPLICANT: MONACI Elisabetta
Query Match
Best Local Similarity
Thes 5; Conserve
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                                                                                                        ; LENGTH: 533
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-147-047-33
                                                                                                                                                                                                                                                                                                   APPLICANT: MUTGOCK, PAUL R.
APPLICANT: MUTGOCK, PAUL R.
APPLICANT: MITCH, Safia K.
APPLICANT: Smith, Randall F.
APPLICANT: Xiang, Zhaoying
TITLB OF INVENTION: NOVEL COMPOUNDS
FILE REFERENCE: GP50016
FULRENT FILING DATE: 2005-06-07
PRIOR APPLICATION NUMBER: US/11/147,047
CURRENT FILING DATE: 2005-06-07
PRIOR APPLICATION NUMBER: US/10/221,097
PRIOR APPLICATION NUMBER: PCT/US01/07143
PRIOR APPLICATION NUMBER: PCT/US01/07143
PRIOR FILING DATE: 2001-03-05
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/187,107
PRIOR APPLICATION NUMBER: 60/187,107
PRIOR APPLICATION NUMBER: 60/188,916
PRIOR APPLICATION NUMBER: 60/188,916
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-03-13
PRIOR FILING DATE: 2000-03-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ORGANISM: Neisseria gonorrhoeae US-10-467-657-4150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 14
US-10-467-657-4150
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APPLICANT: Murdock, Paul
APPLICANT: Rizvi, Safia K
                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
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                                                                                                                                                                                                                                                                PRIOR FILING DATE:
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Local Similarity 57.1%;
nes 4; Conservative
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                    48.5%;
ilarity 83.3%;
Conservative
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                    Score 32; DB
Pred. No. 90;
0; Mismatches
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Pred. No.
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Search completed: December 4, 2005, 04:37:49
Job time: 4.20833 secs

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Maximum
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1: geneseqp1980
2: geneseqp1990
3: geneseqp2000
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Listing first 45 summaries
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Aau65794	Abo69555	Abu15664	Abb09181	Abm88218	Abm94428	Adz04207	Adx07646	Aaw26165	Adz04210	Aaw26163	Ads20416	Aau30396	Aaw26164	Aeb49038	Abp79536	Aay38596	Aeb49036	Aay38595	Adq65091	Ads42446
Propionib	Pseudomon	Protein e	Pseudomon	Rice abio	M. xanthu	Novel apo	Cyclin-de	Human KF-	Novel apo	Mouse KF-	Crab-eati	Novel hum	KF-1 prot	N. gonorr	N. gonorr	Neisseria	N. gonorr	Neisseria	Novel hum	Bacterial

## ALIGNMENTS

RESULT 1 ADR38727

ADR38727 standard; peptide; 15 AA.

Mouse heavy chain variable region CDR3

seqid 129

02-DEC-2004 ADR38727;

(first entry)

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antibacterial; antibody; botulinum neurotoxin type A; BoNT/A;
BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody;
toxin neutralisation; botulinum neurotoxin poisoning; mouse;
                                                                                                                       useful for diagnosing botulism or fowith botulinum neurotoxin poisoning.
                                                                                                                                 New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated
                                                                                                                                                                                                                              31-AUG-1998;
01-AUG-2002;
                                                                                                                                                                                                                                                            01-AUG-2003;
                                                                                                                                                                                                                                                                                 09-SEP-2004.
                                                                                                                                                                                                                                                                                                      US2004175385-A1
                                                                                                                                                                                                                                                                                                                          Mus sp.
                                                                                                                                                                  WPI; 2004-652009/63.
                                                                                                                                                                                                                                                                                                                                             heavy chain variable region; complementarity determining region; CDR3.
                                                                                                                                                                                                          (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                      JD,
                                                                                                                                                                                      Amersdorfer
                                                                                                                                                                                                                              98US-00144886.
2002US-0400721P.
                                                                                                                                                                                                                                                            2003US-00632706
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The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone \$25, C35, C35, 1C6, 3D12, B4, IF3, huC25, A11, A22, WR1(V), WR1(T), 3-1, 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum neurotoxin type A (BoNT/A). Also described are: a polypeptide (II) comprising BoNT/A neutralising epitope having an epitope that is

Example 3; SEQ ID NO 129; 110pp; English.

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producing (I); and a composition (III) comprising several anti-
botulinum neurotoxin antibodies, where each antibody is specific for a
different epitope of a botulinum neurotoxin and the combination of
control of the following are disclosed: a pharmaceutical composition
comprising (I); and a kit comprising (I). (I) is useful for neutralising
comprising (I) and a kit comprising (I). (I) is useful for neutralising
comprising (I) and a kit comprising (I) in surplus, where each of (I) is
specific for a different epitope of the botulinum neurotoxin which
composition of antibodies shows greater toxin neutralisation than the
single antibodies in surplus. (I) is useful for diagnosing the botulism
cor for treating pathologies associated with botulinum neurotoxin
cor is creating pathologies associated with botulinum neurotoxin
cor for treating pathologies associated with botulinum neurotoxin
cor poisoning. (I) exhibits specificity and affinity towards BoNT/A. (I)
consider rapid detection or diagnosis of botulism. This is the amino acid
sequence of mouse heavy chain variable region complementarity determining
correction of anti-botulinum neurotoxin anti-botulinum neurotoxin anti-botulinum neurotoxin anti-botulinum neurotoxin anti-bodies.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antibacterial; antibody; botulinum neurotoxin type A; BONT/A; BONT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region;
The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone $25, C25, C39, IC6, 3D12, B4, IF3, huC25, Ar1, Ar2, WR1(V), WR1(T), 3-1,
                                                                                                                                                                                                               New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated
                                                                                                                                                                                                                                                                                                                                                                                                        31-AUG-1998; 98US-00144886.
01-AUG-2002; 2002US-0400721P.
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                                                                                                                                                                                             botulinum
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                                                                                                                                                                                           neurotoxin poisoning.
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RESULT 3
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                                                                                                                             New isolated antibody that useful for diagnosing botu with botulinum neurotoxin
                                                                                                                                                                                                                                                                                                                                                       31-AUG-1998;
01-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                       01-AUG-2003; 2003US-00632706
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antibacterial; antibody; botulinum neurotoxin type A; BoNT/A;
BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse heavy
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region 3 (CDR3) from
                                                                                                                                                                                                                         WPI; 2004-652009/63.
                                                                                                                                                                                                                                                                  Marks JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2004175385-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CDR3; complementarity determinig region 1.
                                                                                                                                                                                                                                                                                                              (REGC ) UNIV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EPDWLLWGDRGALDV
                                                                                                                                                                                                                                                                  Amersdorfer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chain anti-BoNT-antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                       98US-00144886.
2002US-0400721P.
                                                                                                                                                                                                                                                                                                              CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             anti-botulinum neurotoxin antibodies.
                                                                                                                                                    that neutralizes botulinum neurotoxin type A, botulism or for treating pathologies associated
                                                                                                                                                                                                                                                                  P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15
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                                                                                                                                poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 89; DB 8;
Pred. No. 1.8e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CD3 seqid 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     m neurotoxin
poisoning; m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mouse; heavy chain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A

Example 4; SEQ ID

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194; 110pp; English

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ADR38795
ADR38795
ADR38795
ADR38795
ADR38795
AC ADR3
AC ADR3
AC ADR3
AC ADR3
AC MOUS
CO MOUS
AC MOUS
AC ADR3
AC ADR3
AC ADR3
AC MOUS
AC ADR3
A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antibodies shows greater toxin neutralisation than the single antibodies in surplus. The following are disclosed: a pharmaceutical composition comprising (I); and a kit comprising (I). (I) is useful for neutralising BONT/A antibody and for neutralising a botulinum neurotoxin which involves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin and the combination of antibodies shows greater toxin neutralisation than the single antibodies in surplus. (I) is useful for diagnosing the botulism or for treating pathologies associated with botulinum neurotoxin poisoning. (I) exhibits specificity and affinity towards BONT/A. (I) exhibits specificity and affinity towards BONT/A. (I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BONT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone $25, C25, C39, IC6, 3D12, B4, IF3, huC25, A1, A22, WRI(V), WRI(T), 3-1, 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum neurotoxin type A (BONT/A). Also described are: a polypeptide (II) comprising BONT/A neutralising epitope having an epitope that is specifically bound by an antibody expressed by clones as mentioned in (I); producing (I); and a composition (III) comprising several antibotic botulinum neurotoxin antibodies, where each antibody is specific for a different epitope of a botulinum neurotoxin and the combination of
                                                                                                                                                               New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2004175385-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antibacterial; antibody; botulinum neurotoxin type A; BONT/A; BONT/A neutralisting epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain; CDR3; complementarity determinig region 1.
                                                                                                                                                                                                                                                                                                                                                WPI; 2004-652009/63.
                                                                                                                                                                                                                                                                                                                                                                                                                               Marks JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-AUG-1998; 98US-00144886
01-AUG-2002; 2002US-0400721P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-AUG-2003; 2003US-00632706
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02-DEC-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EPDWLLWGDRGALDV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EPDWLLWGDRGALDV 15
                                                                                                                                                                                                                                                                                                                                                                                                                               Amersdorfer P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              heavy chain anti-BoNT-antibody CDR3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
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; Pred. No. 1.8e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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The invention describes an isolated antibody (I) that specifically binds

Example 4; SEQ ID NO 200; 110pp; English

Example 4; SEQ ID NO 197; 110pp; English.

밁 8

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RESULT 5
ADR38798
ID ADR38798
AC ADR3
XX ADR3
XX ADR3
XX ADR3
XX ADR3
XX ADR4
CO1 02-E
CO2-E
CO3-E
CO3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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                                                                                                       New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated
                                                                                                                                                                                                                                                                                                                                                                                                                         31-AUG-1998; 98US-00144886.
01-AUG-2002; 2002US-0400721P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antibacterial; antibody; botulinum neurotoxin type A; BoNT/A;
BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody;
toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-SEP-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mouse heavy chain anti-BoNT-antibody CD3 seqid 200
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                                                                                                                                                                                                          WPI; 2004-652009/63.
                                                                                                                                                                                                                                                                                Marks JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-AUG-2003; 2003US-00632706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US2004175385-A1
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                                                                  with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                      (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDR3; complementarity determinig region 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
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15; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EPDWLLWGDRGALDV 15
                                                                                                                                                                                                                                                                                    Amersdorfer P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 89; DB 8; ilarity 100.0%; Pred. No. 1.8e-06; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₽,
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The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A

binds

Example 3; SEQ ID NO 131; 110pp; English

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ARBSULT 6
ADGN 37
AC
ADGN 40
ADGN 4
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BONT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone $25, (25, C35, 1C6, 3D12, B4, 1F3, hu(25, Ar1, Ar2, WR1(V), 
New isolated antibody that neutralizes botulinum neurotoxin type useful for diagnosing botulism or for treating pathologies associ with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BONT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-AUG-1998; 98US-00144886
01-AUG-2002; 2002US-0400721P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US2004175385-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antibacterial; antibody; botulinum neurotoxin type A; BoNT/A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mouse heavy chain variable region CDR3 seqid 131.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-DEC-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                    Marks JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                      2004-652009/63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of mouse heavy chain anti-BoNT-antibody CDR3.
                                                                                                                                                                                                                                                                                                                                                          Amersdorfer P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
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                                                for treating pathologies associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ٥.
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Sequence 15 AA;
    (CDR3)
    from anti-botulinum neurotoxin antibodies
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Matches
                                           Query Match
Best Local Similarity
                                    15;
\vdash
                1 EPDWLLWGDRGALDV 15
EPDWLLWGDRGALDV 15
                                    Conservative
                                             100.0%;
                                    0
                                            Score 89; DB 8;
Pred. No. 1.8e-06;
                                     Mismatches
                                     0
                                                     Length 15
                                     Indels
                                    0
                                     Gaps
                                     0
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BONT/A neutralising epitope; anti-Dotuillum neurovices heavy toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy
                                                                                                                         antibacterial; antibody; botulinum neurotoxin type A; BoNT/A;
                                                                                                                                                                                                                                                                      02-DEC-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                   ADR38801 standard; peptide; 15 AA
                                                                                                                                                                                              Mouse heavy chain anti-BoNT-antibody CD3 seqid
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chain,

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ADR38DIT 7
ADR38DIX 7
ADR38DIX AC
ADR3
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01-AUG-2002; 2002US-0400721P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-AUG-2003; 2003US-00632706
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US2004175385-A1
                                                         WPI; 2004-652009/63
                                                                                                                                                                      Marks JD,
                                                                                                                                                                                                                                                                             (REGC ) UNIV CALIFORNIA
                                                                                                                                                                            Amersdorfer P;
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RESULT 8
ABG20331
ID ABG27
XX
ABG20331
ID ABG27
XX
AC ABG2
XX
AC ABG2
XX
AC Nove
XX
Huma
KW Huma
KW Hood
XX
Home
COS HOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                श्
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC The invention describes an isolated antibody (I) that specifically binds CC to an epitope specifically bound by an antibody expressed by a specific CC clone where (I) binds to and neutralises botulinum neurotoxin type A CC (BONT/A). An isolated antibody (I) that specifically binds to an epitope Specifically bound by an antibody expressed by a clone chosen from clone CC specifically bound by an antibody expressed by a clone chosen from clone CC comprising BONT/A neutralising epitope having an epitope that is Specifically bound by an antibody expressed by a clone sa mentioned in (I) producing (I); and a composition (II) comprising several antiocc in type A (BONT/A). Also described are: a polypeptide (II) CC comprising bound by an antibody expressed by clones as mentioned in (I); producing (I); and a composition (III) comprising several antiocc different epitope of a botulinum neurotoxin antibody specific for a different epitope of a botulinum neurotoxin antibodies, where each antibody is specific for a different epitope of the second antibodies in surplus. The following are disclosed: a pharmaceutical composition (CC in murplus. The following are disclosed: a pharmaceutical composition (CC involves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin which (I) is comprising (I); and a kit comprising a botulinum neurotoxin than the combination of antibodies shows greater toxin neutralisation than the combination of antibodies shows greater toxin neutralisation than the combination of antibodies associated with botulinum neurotoxin than the combination of antibodies associated with botulinum neurotoxin (I) cenables rapid detection or diagnosis of botulism. This is the amino acid composition or diagnosis of botulism. This is the amino acid sequence of mouse heavy chain anti-BoNT-antibody CDR3.
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Best Local
   N-PSDB; AAS84518.
                                WPI; 2001-639362/73
                                                                                                        Drmanac
                                                                                                                                                                                                                                         31-MAR-2000; 2000US-00540217.
23-AUG-2000; 2000US-00649167.
                                                                                                                                                                                                                                                                                                                                                 30-MAR-2001; 2001WO-US008631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200175067-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel human diagnostic protein #20322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABG20331;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABG20331 standard; protein; 334 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 4; SEQ ID NO 203; 110pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      supplement;
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                                                                                                        RT,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EPDWLLWGDRGALDV 15
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                                                                                                Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry
                                                                                                                                                                        INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   e mapping; gene mapping; gene therapy; forension
medical imaging; diagnostic; genetic disorder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     84.3%;
93.3%;
                                                                                                    Tang
                                                                                                        TY
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Pred. No. 0.00023;
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RESULT 9
ADJ98189
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cc sequences. (I) is useful as hybridisation probes, polymerase chain (reaction (PCR) primers, oligomers, and for chromosome and gene mapping, cc and in recombinant production of (II). The polymucleotides are also used in diagnostics as expressed sequence tags for identifying expressed cc in diagnostics as expressed sequence tags for identifying expressed cc genes. (I) is useful in gene therapy techniques to restore normal cc useful for generating antibodies against it, detecting or quantitating a cc polypeptide in tissue, as molecular weight markers and as a food cs supplement. (II) and its binding partners are useful in medical imaging co f sites expressing (II). (I) and (II) are useful in medical imaging co sites expressing (II). (I) and (II) are useful for treating disorders co involving aberrant protein expression or biological activity. The collapsetide and polymucleotide sequences have applications in collapsetics, forensics, gene mapping, identification of mutations companishle for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and cambino acid sequences. ABG00010-ABG30377 represent novel human diagnostic patent did not appear in the printed specification, but was obtained in celectronic format directly from MIPO at this patent directly from MIPO at the print of markets the sequence contains a contained in the printed specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                  Norris SR, Li
Hirschberg J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 334 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.
                                                   Venkatesh TV;
                                                                                                                                                               05-AUG-2002; 2002US-0400689P.
05-AUG-2003; 2003US-00634548.
                                                                                                                                                                                                                                                                                                                                      Prochlorococcus marinus str. MIT 9313
                                                                                                                                                                                                                                                                                                                                                                                           phytol kinase; tocopherol biosynthesis; plant; drought resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                Prochlorococcus marinus str MIT 9313 phytol kinase protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADJ98189 standard; protein; 201
                                                                                                                                                                                                                        05-AUG-2003; 2003WO-US025276
                                                                                                                                                                                                                                                             12-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ftp.wipo.int/pub/published_pct_sequences
                                                                                                                           (MONS ) MONSANTO TECHNOLOGY LLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 EPDWLLWGDRGALDV 15
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8; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KPDWSSWGPSGWIDV 277
                                                                                          Lincoln K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  relates to isolated polynucleotide (I) and polypeptide (II)
                                                                    Karunanandaa B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     57.3%;
53.3%;
                                                                      Abad MS, Eilers R,
ndaa B, Moshiri F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>ې</u>
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Pred. No. 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                    Hartsuyker
Stein JC, V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 334;
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                                                                        Valentin HE;
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WPI; 2004-157125/15

FFXSXCCCCCXSX

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RESULT 10
ABO66015
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Best Local S
Matches 6
                                                      Query Match
Best Local S
Matches 8
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                                                                                                                                                                  Sequence
                                                                                                                                                                                                                   The invention describes a new isolated nucleic acid encoding a Klebsiella pneumoniae polypeptide. Also described are: a recombinant expression vector comprising the nucleic acid, operably linked to a transcription regulatory element; and a cell comprising the recombinant expression vector. The nucleic acid is useful for preparing a vaccine composition against Klebsiella pneumoniae. This is the amino acid sequence of a Klebsiella pneumoniae polypeptide of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO 12532; 932pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid encoding a Klebsiella pneumoniae polypeptide, useful preparing a vaccine composition against Klebsiella pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Breton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US6610836-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Klebsiella pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Recombinant expression vector; transcription regulatory element; Klebsiella pneumoniae protein; antibacterial; Vaccine.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New phytol kinase polynucleotides, useful in mediating tocopherol biosynthesis and in producing plants with increased drought resistance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GENO-) GENOME THERAPEUTICS CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2003-895346/82.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GL,
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                                                      Similarity
8; Conserv
                                                                                                                                                                     229
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EPDWLLWGDRGALD 14
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                                                      Score 48; DB
Pred. No. 44;
1; Mismatches
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                                                                                                            DB 7;
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RESULT 12
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                                                                                                                                                                                                                                                                  The present sequence is the protein which is encoded by open reading frame -1 of the Streptomyces globisporus enedigne C-1027 gene cluster. Enedigne C-1027 is an antibiotic, consisting of an apoprotein and a non-peptidic chromophore, which acts by damaging DNA. The sequences within the gene cluster, and the proteins they encode, can be used in the treatment of cancer, along with antagonists of the protein. This protein is an ABC transport/UvrA-like protein
                                                                                                                                                                                                                                                                                                                                                                      Isolated nucleic acid comprising a nucleic acid encoding any open reading frames (ORFs) -7 to 42, excluding ORF 9 (cagA), the production of enediyne C-1027 antitumor antibiotics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-JAN-1999;
05-JAN-2000;
                  cancer; tissue specificity; human.
                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                    Claim 15; Page 87-91; 160pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200040596-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB13560
                            Expressed sequence tag;
                                                Human prostate cancer-associated protein
                                                                      08-DEC-1999
                                                                                                             AAY48365
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                                                                                                                                                                                                        Similarity 7; Conserv
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                                                                                                                                                                                                                                                  775 AA;
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                                                                                                             standard;
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                                                                                                             protein;
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                             EST;
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Pred. No.
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                             prostate;
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                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                   1.6e+02
                              tumor;
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                              treatment;
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                             gene therapy;
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useful for
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Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention describes novel nucleic acid sequences (A) that are expressed at high level in normal prostatic tissue. Polypeptides (I) encoded by (A) are used: (a) for identifying agents for treatment of prostatic cancer and (b) for therapy of prostate cancer, optionally where expressed by gene therapy methods. (A) is also used to isolate full-length genes (for gene therapy) and for recombinant production of (I), which can be used to raise specific antibodies. (A) are identified by assembly of ESTs (expressed sequence tags) before these are analyzed for expression pattern (tissue specificity). This approach eliminates many of the false results, as regards tissue specificity, associated with known methods that use single (usually short) ESTs. AAV48304-Y48456 represent peptides encoded by the expressed sequence tags described in the method
                                     31-MAR-2000; 2000US-00540217.
23-AUG-2000; 2000US-00649167.
                                                                           30-MAR-2001; 2001WO-US008631.
                                                                                                                             WO200175067-A2
                                                                                                                                                    Homo sapiens
                                                                                                                                                                            Human; chromosome mapping; gene mapping; gene therapy; forension supplement; medical imaging; diagnostic; genetic disorder
                                                                                                                                                                                                                     Novel human
                                                                                                                                                                                                                                              18-FEB-2002
                                                                                                                                                                                                                                                                                                ABG22524 standard; protein; 455 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 59
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New nucleic acid expressed at high level in normal prostatic tissue and encoded polypeptides, used to treat cancer and screen for therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-519629/44
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             (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention
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                                                                                                                                                                                                                   protein #22515.
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15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                        Recombinant DNA construct; transformed plant; improved plant property; cold tolerance; heat tolerance; drought tolerance; herbicide; osmosis; pathogen tolerance; pest tolerance; plant disease resistance; pathogen tolerance; plant growth regulator; cell cycle pathway modification; plant growth regulator; homologous recombination; seed oil yield; protein yield; carbohydrate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated polynucleotide and encoded polypeptides, useful diagnostics, forensics, gene mapping, identification of mutat responsible for genetic disorders or other traits and to assebiodiversity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADS23387 standard; protein; 904 AA
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N-PSDB; AAS86711.
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                                     21-FEB-2002; 2002US-0360039P
                                                                                                   20-FEB-2003; 2003US-00369493.
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                                                                                                                                                                                                                                                                                                                                                                                                   nitrogen;
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polypeptide.
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Pred. No. 1.3e+02;
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Matches 7
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                                  02-AUG-2001
                                                                                                  WO200154477-A2
                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                            Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse; tomato; monkey; dog; sea urchin; expressed sequence tag; EST; diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
                                                                                                                                                                                                                                                                                                                                                                                              Human EST encoded protein SEQ ID NO: 1924.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-OCT-2001
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(HINK/)
(SLAT/)
(CHEN/)
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HINKLE G J.
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Search completed: December 4, Job time: 132.312 secs

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17-JUL-2000;
03-AUG-2000;
15-SEP-2000;
                                                                                                                The present invention provides the protein and coding sequences of novel proteins from a variety of organisms, including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is a protein of the invention
                                                                                          Sequence
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                                                                                                                                                                                                                         Claim 20; Page 1235; 1275pp; English.
                                                                                                                                                                                                                                               Isolated polypeptide for treatment of diseases, diagnostics, raising antibodies and research use.
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PGWLIWGGKNRGGLN
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; 2000US-00617746.
; 2000US-00631451.
; 2000US-00663870.
                                              Conservative
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Zhang i
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3; Mismatches
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46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	47.2	47.2	47.2	47.2	47.2	47.2
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N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
T27657	D84600	T37786	AG0305	T10847	C70735	AG0888	F75093	T36093	E84416	B97219	G90698	A85549	G64780	AG0565	T34994
hypothetical prote	probable xylulose	probable RNA-bindi	probable L-iditol	ein -	probable idsA prot	probable AraC-fami	hypothetical prote		hypothetical prote	conserved membrane	probable oxidoredu	probable oxidoredu	probable membrane	probable membrane	probable long-chai

## ALIGNMENTS

R;Kawarabayasi, Y.; Sawada, M.; Horikawa, H.; Halkawa, Y.; Hino, Y.; Yamamoto, S.; Sekint M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida, N.; Oguchi, DNA Res. 5, 55-76, 1998
A;Title: Complete sequence and gene organization of the genome of a hyper-thermophilic a: A;Reference number: A71000; MUID:98344137; PMID:9679194
A;Recession: D71142

A;Status: preliminary; nucleic acid sequence not shown; translation not shown

A; Molecule type: DNA A; Residues: 1-373 < KAW> hypothetical protein PH0351 - Pyrococcus horikoshii C;Species: Pyrococcus horikoshii C;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 09-Jul-2004 C;Accession: D71142

ster, E.W.
A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
A;Accession: AB3234
A;Status: preliminary
A;Status: preliminary
A;Molecule type: DMA
A;Molecule type: DMA
A;Residues: 1-298 <KUR>
A;Cross-references: UNIPROT:Q8U680; UNIPARC:UPI0000D2764; GB:AE008690; PIDN:AAL46291.1;
A;Experimental source: strain C58 (Dupont) C;Accession: AB3234
R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.;
erage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, 7;
Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
Science 294, 2317-2323, 2001
A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, transcriptional regulator, LysR family gcvA [imported] - Agrobacterium tumefaciens (stra C;Species: Agrobacterium tumefaciens C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004 RESULT AE3234 A;Cross-references: UNIPROT:058089; UNIPARC:UPI0000062DB7; GB:AP000002; NID:g3236129; PII A;Experimental source: strain OT3 A;Note: this accession replaces an interim accession for a sequence replaced by GenBank 밁 Ş A;Gene: Best Loc Matches ;Genetics: Query Match Local PH0351 318 PGWLLWGILILLMGRIGNPGALD 340 l Similarity 10; Conserv N PDWLLW------GDRGALD 14 Conservative 51.7%; 43.5%; il, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.;
; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; ! -Score 46; DB Pred. No. 19; 1; Mismatches 2; <u>ب</u> Length 373 Indels W.; Perry, M.; Gordon-Kamm, 10; Gaps 1; McClell

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           probable AMP-binding enzyme-family protein YPO0537 (imported) - Yersinia pestis
C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
C;Accession: AG0066
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Holroyd, Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S. Nature 393, 537-544, 1998
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                                                                                                                                                                                                                                                                                                                        A;Reference number: AB0001;
A;Accession: AG0066
                                                                                                                                                                                                                                                                                                                                                 A;Title: Genome sequence of Yersinia pestis, the causative agent of plague A;Reference number: AB0001; MUID:21470413; PMID:11586360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: UNIPROT:005852; UNIPARC:UPI000016534B; GB:Z95120; GB:AL123456;
A;Experimental source: strain H37Rv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probable entD protein - Mycobacterium tuberculosis (strain H37RV)
                                                                                                                                                                                                                                       A;Cross-references: UNIPROT:Q8ZIG5; UNIPARC:UPI00000DCD42; GB:AL590842; PIDN:CAC89394.1
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A; Residues: 1-601 < KUR>
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A; Residues: 1-203 <COL>
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;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 09-Jul-2004
;Accession: G70595
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                       Similarity
                                                                                   9;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EPDWLLW 7
                                          EPDWLLWGDRGALD 14
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                                                                                                                                                                      Synechocystis long-chain-fatty-acid-CoA ligase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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85.7%;
                                                                                                   50.6%;
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Pred. No. 15;
1; Mismatches
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Pred. No. 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ampR
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                                                                                                       Score 45;
Pred. No.
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                                                                                                                              DB 2;
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                                                                                                                              Length 601;
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A; Introns: 12/1
A; Note: V-SERA
C; Superfamily:
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R;Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; A
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H
Bs-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Franca, S.G.; Franco, M.G.; Frohm
J.D.; Jungueira, W.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.G.; Franco, M.G.; Frohm
J.D.; Junqueira, M.L.; Kemper, B.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigr
Chado, M.A.; Madeira, A.M. B.N.; Madeira, H.N.F.; Marrino, C.L.; Marques, M.Y., Martins, B.
A; Authors: Martins, B.M.F.; Mateukuma, A.Y.; Menok, C.F.M.; Miracca, E.G.; Miyaki, C.Y.;
F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A.
Rodrigues, V.; Rosa, A.J. de M.A.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Bawasak,
A; Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveira
M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z
A; Reference number: A59328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_cnange vy-uur-av C;Accession: G82768
C;Accession: G82768
R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nv Nature 406, 151-157, 2000
Nature 406, 151-157, 2000
A;Fitle: The genome sequence of the plant pathogen Xylella fastidiosa.
A;Reference number: A82515; MUID:20365717; PMID:10910347
A;Rocession: G82768
A;Accession: G82768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            virulence protein XF0754 [imported] - Xylella fastidiosa (strain 9a5c)
C;Species: Xylella fastidiosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Accession: T30842
R;Kiefer, M.C.; Crawford, K.A.; Boley, L.J.; Landsberg, K.E.; Gibson, H.L.; Kaslow, Mol. Biochem. Parasitol. 78, 55-65, 1996
A;Title: Identification and cloning of a locus of serine repeat antigen (sera)-relained and accession: T30842
A;Accession: T30842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Residues: 1-1076 <KIE>
A;Cross-references: UNIPROT:Q26154; UNIPARC:UPI00000809B3; EMBL:U51723; NID:g1381087; PII
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C;Species: Plasmodium vivax
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A; Residues: 1-237 <SIM>
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;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;Superfamily: Plasmodium vivax serine-repeat antigen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004
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                                                                                                                                       Superfamily: type IV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       743 KPYWLLQNSWGKHWGDKGTFKV 764
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9; Conservative
Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The Xylella fastidiosa Consortium of the Organization for Nucleotide
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                                                                                                                                           pathway, VirJ component
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Pred. No. 8
                                 Score 44; DB 2;
Pred. No. 24;
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                                                                           Length 237;
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WLLWGDRGALDV 15

Mismatches

4

indels

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3

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A;Molecule type: DNA
A;Residues: 1-409 <KAW>
A;Cross-references: UNIPROT:Q9UY92; UNIPARC:UPI0000034560; GB:AJ248288; GB:AL096836; NII
                                         A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-601 <KUR>
                                                                                                            R;Barnett, M.J.; Fisher, R.F.; Jones, T.; Komp, C.; Abola, A.P.; Barloy-Hubler, F.; Bows, Kalman, S.; Keating, D.H.; Palm, C.; Peck, M.C.; Surzycki, R.; Wells, D.H.; Yeh, K.C. Proc. Natl. Acad. Sci. U.S.A. 98, 9885-9886, 2001
A;Title: Nucleotide sequence and predicted functions of the entire Sinorhizobium melilot A;Reference number: A95262; MUID:21396509; PMID:11481432
A;Accession: E95296
                                                                                                                                                                                                                                          probable ABC-type iron transport system protein SMa0525 [imported] - Sinorhizobium C;Species: Sinorhizobium meliloti C;Decies: Sinorhizobium meliloti C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 09-Jul-2004 C;Accession: E95296
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Parkhill, J.; Barrell, B.G.; Rajandream, submitted to the EMBL Data Library, August
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A; Accession: B75010
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A;Cross-references: UNIPROT:Q930C1; UNIPARC:UPI00000CB03E; GB:AE006469; A;Experimental source: strain 1021, megaplasmid pSymA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Gene: 3C3.21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
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A; Accession: T10930
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A;Description: Pyrococcus abyssi genome seque
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Best Local S
Matches 9
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Best Local
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Pred. No. 49;
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Pred. No.
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August 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
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                           PIDN: AAK64935.1
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  homolog to yeast orf yor166c. [imported] - fission yeast (Schizosaccharomyces pombe) C;Species: Schizosaccharomyces pombe C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 09-Jul-2004 C;Accession: T50422
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                                                                                              T50422
                                                                                                                RESULT
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A;Cross-references: UNIPROT:Q55037; UNIPARC:UPI0000176276; EMBL:U33322; NID A;Experimental source: PCC 7942
R;Liu, Y:; Tsinoremas, N.F.; Golden, S.S.; Kondo, T.; Johnson, C.H.
Mol. Microbiol. 20, 1077-1081, 1996
A;Title: Circadian expression of genes involved in the purine biosynthetic A;Reference number: S77612; MUID:36405630; PMID:8809759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Galibert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola, P.; Ampe, F.; Barloy-Hubler, pela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher, R.F.; L.; Hyman, R.W.; Jones, T. Science 293, 668-672, 2001
Science 293, 668-672, 2001
A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K.; Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A;Reference number: A96039; MUID:21368234; PMID:11474104
                                                                                                                                                                           A;Description: catalyzes the condensation of 5'-phosphoribosylformylglycinamide with A;Pathway: purine nucleotide biosynthesis
A;Note: fourth step in pathway
C;Keywords: ligase; purine nucleotide biosynthesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Liu, Y.; Tsinoremas, N.F. submitted to the EMBL Data Library, August 1995 A;Description: Unusual gene arrangement for the A;Reference number: S77614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Contents: annotation C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                A;Residues: 113-321 <LIW>
A;Cross-references: UNIPARC:UPI0000BE4A4; EMBL:U33211
A;Experimental source: PCC 7942
                                                                                                                                                                                                                                                                        A;Gene: purL
C;Function:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-112 <LIU>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 phosphoribosylformylglycinamidine synthase (EC 6.3.5.3) component II - Synechococcus N_\ellAlternate names: FGAM synthetase
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                                                                                                                                                                                                                                                                                                                                        A; Note: the nucleotide sequence was submitted to the EMBL
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                                                                                                             Query Match
Best Local
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Accession: S77614; S77613
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                                                                                     Similarity
7; Conserv
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PDWLLFAEGGA
                                             PDWLLWGDRGA 12
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85.7%;
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                                                                                        Score 43; DB:
Pred. No. 46;
2; Mismatches
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Pred. No.
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A;Molecule type: DNA
A;Residues: 1-462 <SEB>
A;Residues: 1-462 <SEB>
A;Cross-references: UNIPROT:Q9P7J1; UNIPARC:UPI000006AA1B; EMBL:AL157991; PIDN:CAB76224
A;Experimental source: strain 972h(-); cosmid c24B10
C;Genetics:
                        Biochem. Biophys. Res. Commun. 231, 481-487, 1997
A;Title: Cloning of human and mouse cDNAs encoding novel
A;Reference number: JC5392; MUID:97223484; PMID:9070305
A;Accession: JC5392
                                                                                                                                                               C;Species: Homo sapiens (man)
C;Date: 04-Jun-1997 #sequence_revision 18-Jul-1997 #text_change 09-Jul-2004
C;Accession: JC5392
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: UNIPROT:008883; UNIPARC:UPI00000E6061; DDBJ:D76445; NID:g2058262; A;Experimental source: brain C;Comment: This protein is involved in membranous protein-sorting annarating cimilarly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Biochem. Biophys. Res. Commun. 231, 481-487, 1997
A;Title: Cloning of human and mouse cDNAs encoding novel
A;Reference number: JC5392; MUID:97223484; PMID:9070305
A;Accession: JC5393
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A; Accession: T50422
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  A;Status:
                                                                                                                                                                                                                                        zinc finger protein KF-1 precursor -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Gene: kf-1
C;Superfamil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: mRNA
A; Residues: 1-683 < YAS>
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                                                                                                                                           R;Yasojima,
                                                                                                                                                                                                                                                                                       RESULT 13
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;Species: Mus musculus (house mouse)
;Date: 04-Jun-1997 #sequence_revision 18-Jul-1997 #text_change 09-Jul-2004
;Accession: JC5393
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Best Local
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nucleic acid sequence
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Similarity 85.7%;
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Similarity 55.6%;
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                                                                                                                                           Tsujimura, A.; Mizuno, T.; Shigeyoshi,
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                      probable lipase PA2949 [imported] - Pseudomonas aer C;Species: Pseudomonas aeruginosa C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 C;Accession: H83276
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A;Molecule type: DNA
A;Residues: 1-698 <SIM>
A;Residues: 1-698 <SIM>
A;Cross-references: UNIPARC: QPPBH5; UNIPARC: UPI00000C2968; GB:AE004030; GB:AE003849; NID
A;Cross-references: UNIPAROT: QPPBH5; UNIPARC: UPI00000C2968; GB:AE004030; GB:AE003849; NID
A;Cross-references: UNIPAROT: QPPBH5; UNIPARC: UPI00000C2968; GB:AE004030; GB:AE003849; NID
A;Cross-references: UNIPAROT: QPPBH5; UNIPARC: UPI0000C2968; GB:AE004030; GB:AE003849; NID
A;Carrary, A.A.; Reinard: A.A.; Camargo, L.E.; Acencio, M.; Acencio, M.; Carrary, A.A.; Camargo, L.E.; Acencio, M.; Carrary, A.A.; Camargo, L.E.; Carrary, A.A.; Camargo, L.E.; Franca, B.C.; Franca, A.J.S.
submitted to GenBank, June 2000
A;Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, B.C.; Franca, A.U.; Martins, E.M.; Martins, E.M.; Martins, E.M.; Martins, E.M.; Martins, E.M.; Madeira, M.; Martins, C.C.; Miyaki, C.Y., F.G.; Nunes, L.R.; Oliveira, M.A.; Menck, C.F.M.; Miracca, B.C.; Miyaki, C.Y., F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, M.C.; Balmiest, D.A.
Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawasak
A;Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silvair
M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z., N.D.; Carrary, A.C.; Pathistical D.A.
N.D. Carrary, A.C.; Pathistical D.
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A;Genet kf-1
C;Superfamily: zinc finger protein KF-1 precursor; RING finger homology C;Keywords: zinc finger protein KF-1 precursor; RING finger homology C;Keywords: zinc finger protein KF-1 predicted <SIG>F;11-19/Domain: transmembrane #status predicted <TM1>F;352-380/Domain: transmembrane #status predicted <TM2>F;617-668/Domain: RING finger homology <RNG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A,Title: The genome sequence of the plant pathogen xylella fastidiosa. A,Reference number: A82515; MUID:20365717; PMID:10910347 A,Note: for a complete list of authors see reference number A59328 below A,Accession: A82593 A,Status: preliminary
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Nature 406, 151-157, 2000
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pothetical protein XF2169 [imported] - Xylella fastidiosa
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X.Q.; Erwin,

A.L.;

S.D.,

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3 C-1

Pseudomonas aeruginosa (strain

PA01)

#text_change 12-Jul-2004

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addan, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, Mature 466, 595-564, 2000

A;Tile: Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic pathoral patents and the property of the property of the patents of the patent
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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RESULT 3
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Q6H084 FREDI
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InterPro; IPR006127; NusB RsmB TIM44.
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InterPro; IPR0006174; RsmB mtfrase.
InterPro; IPR000051; SAM bind.
Pfam; PF01189; Nol1 Nop2 Fmu; 1.
Pfam; PF01189; NusB; 1.
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Q6H084;
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05-JUL-2004 (
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Submitted (DEC-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; AP008231; BAD78770.1; -; Genomic DNA.
GO; GO:0008649; F:rRNA methyltransferase activity; IEA.
GO; GO:0008364; P:rRNA processing; IEA.
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Synechococcus sp. (strain PCC 6301) A
Bacteria; Cyanobacteria; Chroococcales
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STRAIN-IFM 10152;
PubMed=15466710; DOI=10.1073/pnas.0406410101;
Ishikawa J., Yamashita A., Mikami Y., Hoshino
Shiba T., Hattori M.;
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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ID Q7V3U3_PROMM
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DT 01-0CT-2003 (T
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RX MEDLINE=228256
RA NOCAD G. Lari
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RA ADIGTON N.A.,
RA JOHNSON Z.I.,
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RA WEDB CA., ZIII
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DR GO; GO:0016020
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Submitted (FEB-2004) to the EMBL/GenBank/DE
EMBL; AY548438; AAT41885.1; -; Genomic_DNA.
Hypothetical protein.
NON_TER 779 779
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Stowe-Evans E.L.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hypothetical protein precursor. OrderedLocusNames=PMT2247;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    diplosiphon.";
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                                                                                   PDWLLWGDRGAL 13
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NUCLEOTIDE SEQUENCE.

MEDLINE=22825698; PubMed=12917642; DOI=10.1038/nature01947;
ROCAP G., Larimer F.W., Lamerdin J.E., Malfatti S., Chain P.,
Ahlgren N.A., Arellano A., Coleman M., Hauser L., Hess W.R.,
Ahlgren N.A., Land M.L., Lindell D., Post A.F., Regala W., Shah
Shah S.L., Steglich C., Sullivan M.B., Ting C.S., Tolonen A.,
Webb E.A., Zinser E.R., Chisholm S.W.;
"Genome divergence in two Prochlorococcus ecotypes reflects ocea
                                                                                                                           Pfam; PF01148; CTP transf 1; 1.

Complete proteome; Hypothetical protein; Signal.

SIGNAL 21

Potential.
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Hypothetical protein (Fragment).
Framyella diplosiphon (Calothrix PCC 7601).
Bacteria; Cyanobacteria; Nostocales; Microchaetaceae; Microchaete.
NCBI_TaxID=1197;
                                                                                                                                                                                                           EMBL; BX572101; CAE22421.1; -; Genomic_DNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0004605; F:phosphatidate cytidylyltransferase
GO; GO:000854; P:phospholipid blosynthesis; IEA.
InterPro; IPR000374; PC_trans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Prochlorococcus marinus (strain MIT 9313).
Bacteria; Cyanobacteria; Prochlorales; Prochlorococcaceae;
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01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
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Analysis: Identification
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the EMBL/GenBank/DDBJ databases.
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Hypothetical
SEQUENCE 42
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Q55880_C
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QBEJF9;
Q1-MAR-2003 (TrEMBLrel. 23,
01-MAR-2003 (TrEMBLrel. 23,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                              "Cryptococcus neoformans serotype D sequencing.";
Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
--- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry v
                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN-B-3501A;
Fung B., Hyman R.W., Rowley D.,
Wickes B.L., Fu J., Davis R.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hypothetical protein.
ORFNames=CNBE1140;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Fungi; Basidiomycota; Tremellomycetidae; Tremellales; 7NCBI_TaxID=283643;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cryptococcus neoformans var. neoformans B-3501A. Eukaryota; Fungi; Basidiomycota; Hymenomycotes; Heterobasidiomycotes;
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13-SEP-2005 (TrEMBLrel.
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Nat. Biotechnol. 20:1118-1123(2002).
EMBL; AE015498; AAN53589.1; -; Genomic_DNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=MR-1
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                                                                                        47024 MW;
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RESULT 9
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RA JONES T., Fede
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01-MAY-2000 (TYEMBLrel. 13, Last sequence update)
01-CCT-2003 (TYEMBLrel. 25, Last annotation update)
Hypothetical protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Fungi; Ascomycota; Saccharomycetales; mitosporic NCBI_TaxID=237561;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hypothetical protein. ORFNames=CaO19.10974;
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  Dungan J., Kuo A., Nev
Roberts J., Persson K
Jones T., Scherer S.,
                                                                                                                                                                                                                   Magee B.B., Newport G., Davis R.W., Scherer S.;
                                                                                                                                                                                                                                             PubMed=15123810; DOI=10.1073/pnas.0401648101;
Jones T., Federspiel N.A., Chibana H., Dungan
Magee B.B., Newport G., Thorstenson Y.R., Aga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-MAY-2005 (TrEMBLrel. 10-MAY-2005 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hypothetical protein.
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"Identification and molecular characterization of a novel Salm
enteritidis pathogenicity islet encoding an ABC transporter.";
mol. Microbiol. 33:791-805(1999).
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                                                                                 NUCLEOTIDE SEQUENCE.
STRAIN=SC5314;
                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Candida albicans SC5314.
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GO; GO:0016020; C:membrane; IEA.
InterPro; IPR003838; DUF214.
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                                                                                                                                                                diploid genome sequence of Candida albicans."; . Natl. Acad. Sci. U.S.A. 101:7329-7334(2004).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           408
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Newport G., Lan C.-Y., Iijima C., Adegbola O., n K., Donnelly S., Favoreto S., Tzung K.-W., S., Agabian N.;
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49706
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Pred. No. 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Saccharomycotina; Saccharomycetes; Saccharomycetales; Candida.
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Best Local :
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EMBL; AY048670; AAL06654.1; -; Genomic_DNA.
GO; GO:0016020; C:membrane; IEA.
GO; GO:0005524; F:ATP binding; IEA.
GO; GO:0016887; F:ATPase activity; IEA.
GO; GO:0016887; F:hydrolase activity; IEA.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0006810; P:transport; IEA.
InterPro; IPR003439; ABC_transport]
EPEnn; PF00005; ABC_transport; IEA.
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Best Local
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Hypothetical protein.
ORFNames=CaO19.3470;
Candida albicans SC5314.
Eukaryota; Fungi; Ascomycota; S:
Saccharomycetales; mitosporic S:
NCBI_TaxID=237561;
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Q59870;
10-MAY-2005 (
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10-MAY-2005 (TrEMBLrel.
10-MAY-2005 (TrEMBLrel.
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PROSITE; PS50893; ABC_TRANSPORTER_2; PS50893; ABC_TRANSPORTER_2; Transport.
ATP-binding; Membrane; Nucleotide-binding; Transport.
SEQUENCE 784 AA; 83960 MM; DABC2D965720A5E7 CRC64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=22171413; PubMed=12183628; DOI=10.1126/science.1072110; Liu W., Christenson S.D., Standage S., Shen B.; "Biosynthesis of the enediyne antitumor antibiotic C-1027."; Science 297:1170-1173(2002).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UvrA-like drug resistance pump.
Streptomyces globisporus.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-CCT-2003 (TrEMBLrel. 25, Last annotation update)
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Q8GMI3;
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SEQUENCE 7:
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EMBL; AACQ01000154; EAK93359.1; -; Genomic_DNA.
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nitted (APR-2004) to the EMBL/GenBank/DDD databases.
CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which
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Pred. No.
                                 Saccharomycotina; Saccharomycetes; Saccharomycetales; Candida.
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QBZR90;
Q1-MAR-2002 (TrEMBLrel. 20, Created)
Q1-MAR-2002 (TrEMBLrel. 20, Last sequendolon-mar-2004 (TrEMBLrel. 26, Last annotally putative inner membrane protein.
Name-ybbp; OrderediocusNames=STM0508;
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Hypothetical |
SEQUENCE 79:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN=SC5314;
PubMed=15123810; DOI=10.1073/pnas.0401648101;
Jones T., Federspiel N.A., Chibana H., Dungan
                                                                                                                                                                                                                         McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Latreill Courtney L., Porwollik S., Ali J., Dante M., Du F., Hou S., Layr Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhan M., Waterston R., Wilson R.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dungan J., Kuo A., Newport G., Lan C.-Y., Iijima C., Ade
Roberts J., Persson K., Donnelly S., Favoreto S., Tzung
Jones T., Scherer S., Agabian N.;
"Annotation of the Genome of Candida albicans.";
Submitted (APR-2004) to the EMBL/GenBank/DDBU databases.
-!- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBU whole genome shotgun (WGS) entry w
                                                                                                                                          EMBL; AE008719; AAL19462.1;
GO; GO:0016020; C:membrane;
InterPro; IPR003838; DUF214.
                                                                                                                                                                                                                                                                                MEDLINE=21534948; PubMed=11677609; DOI=10.1038/35101614; McClelland M., Sanderson K.E., Spieth J., Clifton S.W.,
                                                                                                                                                                                                                                                                                                          STRAIN-LT2;
                                                                                                                                                                                                                                                                                                                                                            Bacteria; Proteobacteria; Gammaproteobacteria;
Enterobacteriaceae; Salmonella.
                                                                                                                                                                                                                                                                                                                                                                                      Salmonella typhimurium.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "The diploid genome sequence of Candida albicans."; Proc. Natl. Acad. Sci. U.S.A. 101:7329-7334(2004).
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NUCLEOTIDE SEQUENCE.
                                                                                                       SEQUENCE
                                                                                                                  Pfam; PF02687; FtsX; Complete proteome.
                                                                                                                                                                                      Nature 413:852-856(2001).
                                                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=602;
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                                                                                                                                                                                                              'Complete genome sequence
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i; AACQ01000155; EAK93328.1; -; Genomic_DNA.
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                                                   Score 48; DB Pred. No. 89; O; Mismatches
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ly S., Favoreto S., Tzung K.-W.,
                                                                                                       72A29069A7021F11 CRC64;
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R., Agabian
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S., Layman D.,
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RESULT 15
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AC Q7UG34;
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ID Q6ZDZ2 ORYSA
AC Q6ZDZ2 OF OS-JUL-2
DT OS-JUL-2
DR ORYZA BA
OC Ehrharto
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Q6JHZ8 HUMAN
Q6JHZ8 HUMAN PRELIMINARY;
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05-JUL-2004 (TrEMBLrel. 27, La
05-JUL-2004 (TrEMBLrel. 27, La
05-JUL-2004 (TrEMBLrel. 27, La
05-JUL-2004 (TrEMBLrel. 27, La
105-JUL-2004 (TrEMBLrel. 27, La
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105-JUL-2004 (TrEMBLrel. 27, La
105-JUL-2004 (TrEMBLrel. 27, Cr
105-JUL-2004 (TrEMBLrel. 27, La
105
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EMBL; AP004338; BAC83511.1; -; Genomic_DNA.
Gramene; Q6ZDZ2; -.
GO; GO:0004519; F:endonuclease activity; IEA.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0016787; F:hydrolase activity; IEA.
InterPro; IR004843; M-pesterase.
Pfam; PF00147; Metallophos; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUCLEOTIDE SEQUENCE.

Zhang J., Cheng J., Wang L., Shao Q., Lu Y., Chen T., Hc
Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.

EMBL; AY459290; AAR23235.1; -; mRNA.

SEQUENCE 61 AA; 6607 MW; 4E162AA3444E7A56 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-UUL-2004 (TrEMBLrel. 27, Created)
05-UUL-2004 (TrEMBLrel. 27, Last sequence update)
05-UUL-2004 (TrEMBLrel. 27, Last annotation updat
Hypothetical protein P0507H12.22.
Name=P0507H12.22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q6ZDZ2_ORYSA PRELIMINARY;
Q6ZDZ2;
05-JUL-2004 (TrEMBLrel. 2)
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Sasaki T., Matsumoto T., Yamamoto K.;
Sasaki T., Matsumoto T., Yamamoto K.;
"Oryza sativa nipponbare(GA3) genomic DNA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oryza sativa (japonica cultivar-group).

Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
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nilarity 87.5%;
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527 AA; 61478 MW;
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01-OCT-2003 (TrEMBLrel. 25, L
Hypothetical protein.
OrderedLocusNames=RB8157;
Rhodopirellula baltica.
time
                                                                                                                                                        EMBL; BX294147; CAD78495.1; -; Genomic_DNA.
Complete proteome; Hypothetical protein.
SEQUENCE 364 AA; 40878 MW; 2284324F0722E6AB CRC64;
                                                                                                                                                                                                                                   MEDLINE=22735913; PubMed=12835416; DOI=10.1073/pnas.1431443100; Gloeckner F.O., Kube M., Bauer M., Teeling H., Lombardot T., Ludwig W., Gade D., Beck A., Borzym K., Heitmann K., Rabus R., Schlesner H., Amann R., Reinhardt R.;
                                                                                                                                                                                                                                                                                                                           Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Pirellula.
NCBI_TaxID=117;
                                                                                                                                                                                              "Complete genome sequence of the marine planctomycete strain 1.";
Proc. Natl. Acad. Sci. U.S.A. 100:8298-8303(2003).
                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE.
            completed: December
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/cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
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US-09-902-540-13627
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US-08-15-069A-80
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US-08-16-069A-80
US-08-16-069A-80
US-08-16-099B-80
US-08-16-099B-80
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US-09-367-206-21
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180, Appl
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US/60/117,747
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 12532
LENGTH: 229
LENGTH: 229
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Best Local Similarity
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TYPE: PRT
ORGANISM: Klebsiella pneumoniae
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	23020, A	5594, Ap	-	8, Appli	8, Appli	7558, Ap	45277, A	14417, A	277, App	272, App	-	272, App	44, Appl	-	44, Appl	<ol> <li>Appli</li> </ol>	•	rddw 'zz

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ALIGNMENTS

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US-09-543-681A-7066
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                                                                                                             Sequence 7066, Application US/09543681A

Sequence 7066, Application US/09543681A

Patent No. 6605709

GENERAL INFORMATION:
APPLICANT: GARY BRETON

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001

CURRENT APPLICATION NUMBER: US/09/543,681A

CURRENT FILING DATE: 2000-04-05

PRIOR APPLICATION NUMBER: US 60/128,706

PRIOR FILING DATE: 1999-04-09

NUMBER OF SEQ ID NOS: 8344

SEQ ID NO 7066
Query Match
                                                         LENGTH: 614
TYPE: PRT
ORGANISM: Proteus mirabilis
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  50.6%;
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Pred. No. 7.8;
  Score 45;
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APPLICANT: Masignani, Vincenzo
APPLICANT: Rappuoli, Rino
APPLICANT: Pizza, Mariagrazia
APPLICANT: Grandi, Guido
TITLE OF INVENTION: Neisserial Antigens
FILE REFERENCE: CHIRO160
CURRENT APPLICATION UNMBER: US/09/303,518D
CURRENT FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 1098
SOFTWARE: Patentin version 3.1
SEQ ID NO 194
LENGTH: 345
TYPE: PPT
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US-09-303-518D-196
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US-09-248-796A-22630
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; Sequence 196, Application US/09303518D
                                                                                                                                                                                          ; TYPE: PRT ; ORGANISM: Neisseria gonorrhoeae US-09-303-518D-194
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Patent No.
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                                                                                                                                                Query Match
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CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
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PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER: OF SEQ ID NOS: 28208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Keith Weinstock et al TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT ORGANISM: Candida albicans
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1es 6; Conservation
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Pred. No. 10;
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Pred. No.
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Query Match
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Tatches 7; Conserve
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US-09-949-016-9984
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US-09-949-016-9984
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CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
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TITLE OF INVENTION: Neisserial Antigens
FILE REFERENCE: CHIRO160
CURRENT APPLICATION NUMBER: US/09/303,518D
CURRENT FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 1098
SOFTWARE: Patentin version 3.1
SEQ ID NO 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 9984
LENGTH: 638
TYPE: PRT
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GENERAL INFORMATION:
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GENERAL INFORMATION:
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APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
                                                                  APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
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APPLICANT: Masignani, Vega
APPLICANT: Rappuoli, Rino
APPLICANT: Pizza, Mariagrazia
APPLICANT: Grandi, Guido
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TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS
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TYPE: PRT
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6; Conserva
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85.7%;
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Pred. No. 81;
2; Mismatches
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Pred. No. 1.4e+02;
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OF DETECTION AND USES THEREOF
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PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 13627
LENGTH: 732
TYPE: PRT
ORGANISM: Myxococcus xanthus
US-09-902-540-13627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
FRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-02-27
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 18301
LENGTH: 320
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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18301
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US-09-252-991A-18301
; ORGANISM: Homo sapiens US-09-854-133-426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Marc J.
                                  SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 426
LENGTH: 174
TYPE: PRT
                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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                                                                                                  APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Raodoh
APPLICANT: Henderson, Robert A.
APPLICANT: Henderson, Darin R.
APPLICANT: Benson, Darin R.
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.475C10
CURRENT FILING DATE: 2001-05-11
UNMBER OF SEO ID NOS: 735
COURTERED FOR METHOD NOS: 735
                                                                                                                                                                                                                                                                                                                                 Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/902,540 CURRENT FILING DATE: 2001-07-10
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Local Similarity 63.6%;
nes 7; Conservation
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5. 6759508
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66.7%;
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Pred. No. 79;
0; Mismatches
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Pred. No. 1.6e+02;
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RESULT 11 US-08-290-448A-80

Sequence 80, Application US/08290448A Patent No. 5698204
GENERAL INFORMATION:

APPLICANT:

Rogers, Bruce Klapper, David G. Rafnar, Thorunn

APPLICANT:

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Best Local Similarity
Thes 7; Conserve
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                                                                                                                            ; MOLECULE TYPE: protein US-08-290-448A-80
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US-08-290-448A-80
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                                                               Matches
                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:

MEDIUM TYPE: Ploppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.

CURRENT APPLICATION NUMBER: US/08/290,448A

FILING DATE: August 15, 1994

PRIOR APPLICATION NUMBER: US 07/529,951

APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1990

APPLICATION NUMBER: US 07/325,365

FILING DATE: May 79, 1998

FILING DATE: March 17, 1989
                                                                                                                                                                                                                                TELEFAX: (617)227-594
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Rogers,
                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,20
REFERENCE/DOCKET NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 93

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD
                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Klapper, David G. APPLICANT: Rafnar, Thorunn
                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
                                                                                                                                                                              TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Boston
STATE: Massa
                                                                             Local
                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                               TELEPHONE:
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323 EPEWMTWNWRTQNDV 337
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                             1 EPDWLLWGDRGALDV 15
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                                                          h 47.2%;
Similarity 46.7%;
7; Conservative
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                                                                                                                                                                                                                                               (617) 227-5941
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                                                                             Score 42; DB 1;
Pred. No. 1.2e+02;
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Pred. No. 49;
                                                              Mismatches
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Mei-chang

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECTUE TYPE: protein
US-08-290-448A-80
                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-175-069A-80
                                                                                                                                                                                                                                                                                                                                                                                          Patent No. 5776761
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 80,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (617)227-594
INFORMATION FOR SEQ ID NO:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/175,069A
FILING DATE: December 29, 1993
                                                                                                                                                                                                                                  APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 0 FILING DATE: March 17, 1 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: August 15, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOPTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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STREET: 60 St
CITY: Boston
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les 7; Conserv
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REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IM
                                                                                                                                                                                        STATE:
                                                                                                                                                                                                                         STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: May 2
                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           323 EPEWMTWNWRTQNDV 337
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                                                                                                                                                                     USA
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ilarity 46.7%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      May 29,
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17, 1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1990
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Pred. No.
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1.2e+02;
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US-08-461-939B-80
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GENERAL INFORMAT
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                                                                                                                                                                         FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/464,000
APPLICATION NUMBER: US 08/290,448
APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 29-MAY-1990
APPLICATION NUMBER: US 07/325,365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (617)227-5941 INFORMATION FOR SEQ ID NO: 80:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/529

FILING DATE: MAY 29, 1990

APPLICATION NUMBER: US 07/325

FILING DATE: MATCh 17, 1989

ATTORNEY/AGENT INFORMATION:

NAME: Amy E. Mandragouras

REGISTRATION NUMBER: 5,207

REGISTRATION NUMBER: 5,207
                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,939B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Methods For Treating Sensitivity To A
TITLE OF INVENTION: Protein Allergen Using Peptides Which
NUMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: IM TELECOMMUNICATION INFORMATION: TELEPHONE: (617)227-7400
                                                                                                                                   FILING DATE: 17-MAR-1989
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD,
STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: protein
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                                                         TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 28 St
CITY: Boston
STATE: Massac
TELEPHONE: (617)742-4214
                                                                            NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
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                                      (617) 227-7400
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L7, 1989
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US-08-464-000-80
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                                                                 Query Match
Best Local Similarity 46.
Matches 7; Conservative
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Best Local Similarity 46.7%;
Matches 7; Conservative
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                              FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 29-MAY-1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-MAR-1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: UMI-018CN2
TELEPHONE: (617)227-7400
                                                                                                                                                                                                           TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
NUMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: protein
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                                                                                                                                                          TOPOLOGY: 11
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CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Boston
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323 EPEWMTWNWRTQNDV 337
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amino acid
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amino acid
GY: linear
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                                                                   47.2%; Score 42; DB 2;
46.7%; Pred. No. 1.2e+02
tive 2; Mismatches
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Search completed: December 4, Job time: 33.1875 secs
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US-09-489-039A-12903
                                                                                                                                                                                                                                                                                                                                                                               Sequence 12903, Application US/09489039A

Patent No. 6610836

GENERAL INFORMATION:
APPLICANT: GATY Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 12903

LENGTH: 493

LENGTH: 493

LENGTH: 493
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Best Local :
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Local Similarity 60.0%;
hes 6; Conservative
                                                                                                   463 WLLWCERGVM 472
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                          2005, 04:09:44
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Pred. No. 1.5e+02;
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Result
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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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89
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

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5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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                                                                                                                                                                                                                                                                                                                                                                                                           Length
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          US-10-632-706-129
US-10-632-706-131
US-10-632-706-194
US-10-632-706-197
US-10-632-706-197
US-10-632-706-203
US-10-632-706-203
US-10-632-706-203
US-10-435-763-50690
US-10-4450-763-52883
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US-10-425-115-243524
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US-10-425-761-11420
US-10-156-761-11420
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134365,
52883, A
12420, A
240160,
42189, A
115853,
13497, A
8, Appli
140079,
                                                    179634,
20876, A
263892,
11420, A
                                                                                                            1674, Ap
1334, Ap
                                                                                                                                                                                                                                                                         200, AI
203, AI
50690,
                                                                                                                                          243524,
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RESULT 1 US-10-632-706-129 ; Sequence 129, Application US/10632706 ; Publication No. US20040175385A1 ; GENERAL INFORMATION:    APPLICANT: MARKS, JAMES D. ; APPLICANT: AMERSDORFER, PETER				42 47 42 47 42 47	42 47.2	42 47.2	42 47.2	42 47.2	42 47.2	2 47	42 47.2	42 47.2	42 47.2	42 47	42 47.2	42 47.2	42.5 47
US/10632706 385A1 PETER	ALIGNMENTS	4 US-10-369-493-20944 3 US-09-847-208-17 5 US-10-809-689-97	4 US-10-282-122A-50322			G.	US-10-450-763-316	3 US-09-854-133-426		4 US-10-312-354-26	SD	4 US-10-424-599-206981	4 US-10-092-154-922	3 US-09-764-847-922	4 US-10-282-122A-43588		
		Sequence Sequence Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence		
		20944, A 17, Appl 97, Appl		-	37978, A	•	31629, A	426, App	426, App	26, Appl		206981,	922, App	•	43588, A		

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RESULT 2
US-10-632-706-130
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; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: THERAPBUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR FILING DATE: 2002-08-01
PRIOR FILING DATE: 2002-08-01
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: Patentin version 3.2
SEQ ID NO 129
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                  Sequence 130, Application US/10632706 Publication No. US20040175385A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local Similarity
APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, JAMES D.
APPLICANT: AMERSDORFER, PETER
APPLICANT: AMERSDORFER, PETER
TITLE OF INVENTION: THERRAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 4071-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 69/144,806
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100.0%; Pred. No. 2.8e-06;
tive 0; Mismatches 0;
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; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-130
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NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn version 3.2
SEQ ID NO 130
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                      US-10-632-706-194
                                                                                                                                                                                                                                                                                                                                         RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: single chain antibody fragment US-10-632-706-131
                                                                                                                                                                                                                                                                             Sequence 194, Appublication No.
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Best Local Similarity 100.0%;
Matches 15; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 131
                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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APPLICANT: AMERSDORFER, PETER
APPLICANT: AMERSDORFER, PETER
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CURRENT FAPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR PILING DATE: 2002-08-01
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                                                                    TITLE OF INVENTION: THERAPBUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM TITLE OF INVENTION: NEUROTOXINS FILE REFERENCE: 4077-895120US CURRENT APPLICATION NUMBER: US/10/632,706 CURRENT FILING DATE: 2003-08-01 PRIOR APPLICATION NUMBER: US 60/400,721 PRIOR PILING DATE: 2002-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: Patentin version 3.2
NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn versio
                                   PRIOR FILING DATE: 1998-08-31
                                                          PRIOR APPLICATION NUMBER: US 09/144,806
                                                                                                                                                                                                                    APPLICANT: MARKS, JAMES D. APPLICANT: AMERSDORFER, I
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TYPE: PRT
ORGANISM: Artificial
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Pred. No. 2.8e-06;
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Pred. No. 2.8e-06;
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; TYPE: PRT; ORGANISM: Artificial; FEATURE; FEATURE; OTHER INFORMATION: single chain antibody fragment US-10-632-706-194
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US-10-632-706-197
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US-10-632-706-200

// Sequence 200, Application US/10632706

publication No. US20040175385A1
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APPLICANT: MARKS, JAMES D.

APPLICANT: AMERSDORFER, PETER
APPLICANT: AMERSDORFER, PETER
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CUERENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: PATENTIN Version 3.2
SEQ ID NO 197
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LENGTH: 15
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Publication No. US20040175385A1
                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: MARKS, J
APPLICANT: AMERSDO
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SOFTWARE: PatentIn version 3.2
SEQ ID NO 200
LENGTH: 15
TYPE: PRT
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Best Local
                                                                                                           APPLICANT: AMERGDORFER, PETER
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 60/144,806
                                                                         PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
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les 15; Conserv
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es 15; Conserv
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Pred. No.
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Pred. No. 2.8e-06;
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CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR PILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOPTWARE: CLUSTOM
SEQ ID NOS: 60736
SOPTWARE: CLUSTOM
SEQ ID NOS: 60736
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US-10-632-706-203
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FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR PRILING DATE: 2002-08-01
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 2002-08-01
NUMBER OF SEQ ID NOS: 278
SOFTWARE: Patentin version 3.2
SEQ ID NO 203
                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION
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Best Local Similarity
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Best Local Similarity 100
Matches 15; Conservative
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TYPE: PRT
ORGANISM: Artificial
FEATURE:
                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 790CIP3/US
                                                                                                                                                                                                                                                                                                                            APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLBIC ACIDS AND POLYPEPTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: MARKS, JAMES APPLICANT: AMERSDORFER,
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                                                          TYPE: PRT
                                     ORGANISM: Homo sapiens
NAME/KEY: DOMAIN
                                                                               ENGTH:
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D. US20040175385A1
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Pred. No. 0.00033;
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Pred. No. 2.8e-06;
; Mismatches 0;
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Query Match
Best Local Similarity
Matches 6; Conserve
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US-10-159-257A-160
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                                                        Sequence 160, Application US/10159257A
Publication No. US20040161828A1
GENERAL INFORMATION:
APPLICANT: SHEN, BEN
APPLICANT: LIU, WEN
APPLICANT: LIU, WEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 79
SOFTWARE: PatentIn version 3.2
SEQ ID NO 27
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Best Local Similarity
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APPLICANT:
APPLICANT:
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APPLICANT: No. US20040045051A1ris, Susan
APPLICANT: Lincoln, Kim
APPLICANT: CHRISTENSON, STEVEN D.
APPLICANT: STANDAGE, SCOTT
TITLE OF INVENTION: GENE CLUSTER FOR PRODUCTION OF THE ENEDIYNE ANTITUMOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/634,548 CURRENT FILING DATE: 2003-08-05 PRIOR APPLICATION NUMBER: Us 60/400,689 PRIOR FILING DATE: 2002-08-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: Ren-01-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Valentin, Henry E.

APPLICANT: Venkatesh, Tyamagondlu V.

TITLE OF INVENTION: Tocopherol biosynthesis related genes and used thereof
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                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT ORGANISM: Prochlorococcus marinus-MIT9313
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LOCATION: (1)...(334)
OTHER INFORMATION: Xaa = X or * as defined in Table 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: DOMAIN
LOCATION: (44)..(307)
OTHER INFORMATION: Sodium:neurotransmitter symporter family domain identified by
OTHER INFORMATION: PFam, accession name SNF, E-value=2e-76, PFam score of 267.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: Sodium:neurotransmitter symporter family proteins domain OTHER INFORMATION: identified by eMATRIX, accession number BL00610D, p-value=2.000e-OTHER INFORMATION: 25, raw score of 20.97
                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH:
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Moshiri, Farhad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Stein, Joshua C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hirshberg, Joseph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hartsuyker, Karen Kindle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Abad, Mark Scott
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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53.3%;
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                                                                                                                                                                                                                                                                                                                                 Score 48; DB Pred. No. 37;
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Pred. No. 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                       ; SBQ ID NO 134365
; LENGTH: 992
; TYPE: PRT
; ORGANISM: Oryza sativa
; FBATURE:
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; OTHER INFORMATION: orf(-1)
US-10-159-257A-160
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FILE REFERENCE: 407T-896020US
; CURRENT APPLICATION UNMBER: US/10/159,257A
; CURRENT FILING DATE: 2002-05-31
PRIOR APPLICATION NUMBER: 09/478,188
; PRIOR APPLICATION NUMBER: 09/478,188
; PRIOR APPLICATION NUMBER: 60/115,434
PRIOR PILING DATE: 1999-01-06
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                      US-10-450-763-52883
Sequence 52883, Application US/10450763
Publication No. US20050196754A1
GRNERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
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LENGTH: 775
TYPE: PRT
ORGANISM: Streptomyces globisporus
FEATURE:
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Best Local a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(53221)B CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 204966
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Similarity 53.8%;
7; Conservative
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Barbazuk, Brad
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Pred. No. 1.3e+02;
1; Mismatches 5
                                                                                                                                                                                                                                                                                                                             Score 47.5; DB 4; Length 992; Pred. No. 2e+02;
                                                                                                                                                                                                                                                                                                             Mismatches
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                                                             POLYPEPTIDES
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APPLICANT: Cas, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
ITITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN
ITITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR PRICING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 12420
LENGTH: 904
TYPE: PRI
TYPE: PR
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; PRIOR FILING DATE: 2001-03-30
; PRIOR PILING DATE: 2000-03-31
; PRIOR FILING DATE: 2000-03-31
; PRIOR PPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SEQ ID NO 52883
; LENGTH: 455
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; LOCATION: (1) ... (455)
OTHER INFORMATION: Xaa = X or *
US-10-450-763-52883
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US-10-425-115-240160
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US-10-369-493-12420
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                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                      Sequence 240160, Application US/10425115 Publication No. US20040214272A1
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                                APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
                                                                                                                                                                                                         APPLICANT: La Rosa, Thomas J. APPLICANT: Kovalic, David K.
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APPLICATION NUMBER: US/10/425,115
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Similarity 70.0%;
7; Conservation
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Similarity 53.8%;
7; Conservative
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Pred. No. 2.1e+02;
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                                                                                                                 Other Molecules Associated With
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2003-04-28

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; Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68332
; SEQ ID NO 6832
; TYPE: PRT
; ORCANISM: Pseudomonas putida
US-10-282-122A-68332
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; OTHER INFORMATION: Clone ID: MRT4577_150607C.1.pep
US-10-425-115-240160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
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SEQ ID NO 240160
LENGTH: 159
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Best Local Similarity
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Publication No. US20040029129A1
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APPLICANT:
APPLICANT:
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CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(159)
OTHER INFORMATION: unsure at all Xaa locations
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ORGANISM: Zea mays
                                                                                                                                                                                                                                   OR APPLICATION NUMBER: 60/230,347
OR FILING DATE: 2000-09-09
OR APPLICATION NUMBER: 60/242,578
OR APPLICATION NUMBER: 60/242,578
OR APPLICATION NUMBER: 60/253,625
OR FILING DATE: 2000-11-27
OR APPLICATION NUMBER: 60/257,931
OR FILING DATE: 2000-12-26
OR APPLICATION NUMBER: 60/267,636
OR FILING DATE: 2001-02-09
OR APPLICATION NUMBER: 60/267,636
OR FILING DATE: 2001-02-09
OR APPLICATION NUMBER: 60/267,636
OR FILING DATE: 2001-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 60/207,727 FILING DATE: 2000-05-26
                                                                                                                                                                                              APPLICATION NUMBER: 60/269,308 FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/230,335 FILING DATE: 2000-09-06
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Yamamoto, Robert
Forsyth, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ohlsen, Kari
Zyskind, Judith
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wall, Daniel
Trawick, John
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75.0%;
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                                 Query Match
Best Local S
Matches 7
221 POWLLWTPAG 230
                2 PDWLLWGDRG 11
                                Similarity 7; Conserv
                                 Conservative
                                         50.6%;
                                  <u>.</u>
                             Score 45; DB 4; Lengum J.-
Pred. No. 1.8e+02;
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Search completed: December 4, 2005, 04:37:43 Job time : 121.5 secs

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Result
No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                 Score
  seq length: 0 seq length: 2000000000
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1: /cgn2 6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*

2: /cgn2 6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*

3: /cgn2 6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*

4: /cgn2 6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*

5: /cgn2 6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*

6: /cgn2 6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*

7: /cgn2 6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*

8: /cgn2 6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
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Gapop 10.0 , Gapext 0.5
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 EPDWLLWGDRGALDV 15
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 4788334 residues
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US-10-467-657-5602
US-11-174-150-34
US-11-174-150-34
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US-11-174-150-35
US-11-054-515-1679
US-11-054-515-1679
US-11-054-515-1679
US-10-821-234-1116
US-10-821-234-1116
US-10-821-234-128
US-11-057-058-61
US-11-057-058-61
US-11-057-058-61
US-11-057-058-61
US-11-057-058-61
US-11-057-058-61
US-11-0510-386-62
US-10-931-626-1466
US-10-931-626-1668
US-10-931-626-1668
US-10-931-626-1668
US-11-108-528-86
US-11-108-528-86
US-11-108-528-86
US-11-108-528-86
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                                 Sequence 5602, Ap
Sequence 1084, Ap
Sequence 1277, Appl
Sequence 34, Appl
Sequence 35, Appl
Sequence 944, Appl
Sequence 1006, Appl
Sequence 1006, Appl
Sequence 61, Appl
Sequence 61, Appl
Sequence 128, Appl
Sequence 128, Appl
Sequence 20, Appl
Sequence 20, Appl
Sequence 54, Appl
Sequence 54, Appl
Sequence 58, Appl
Sequence 58, Appl
Sequence 62, Appl
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45	44	43	42	41	40	39	38	37	36	ω 5	34	33	32	ω P	30	29	28	27	26
33	33	33	ω S	33	33	ω ω	ω 3	33.5	33.5	34	34	34	34	34	34	34	34	34	34
37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.6	37.6	38.2	38.2	38.2	38.2	m	m	38.2	m	m	m
248	248	248	248	248	247	177	91	249	137	2725	820	616	613	486	274	269	253	253	251
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US-11-054-515-984	US-11-054-515-980	US-11-054-515-965	US-11-054-515-953	US-11-054-515-877	US-11-054-515-1307	US-10-980-388-95	US-10-467-657-1052	US-11-054-515-649	US-10-821-234-882	US-11-113-424-52	US-11-147-047-31	US-10-131-826A-206		US-10-821-234-1063	US-11-015-546A-12	US-11-015-546A-10	US-11-054-515-1069	US-11-015-546A-2	US-11-054-515-1793
Sequence 984, App	Sequence 980, Ap	-	Sequence 953, Ap	•		Sequence 95, App	Sequence 1052, A	Sequence 649, Ap	Sequence 882, Ap			Sequence 206, App	Sequence 190, Ap	Sequence 1063, Ap	Sequence 12, Appl	Sequence 10, App	Sequence 1069, A	Sequence 2, Appl	Sequence 1793, A

ALIGNMENTS

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Sequence 1084, Application US/11054515
; Sequence 1084, Application US/2005025532A1
; GENERAL INFORMATION:
APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLy;
FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR APPLICATION NUMBER: 00/540,347
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 00/580,347
; PRIOR APPLICATION NUMBER: 10/293,418
                                                                                                                                                                                                                                                                                                                        US-11-054-515-1084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Neisseria gonorrhoeae US-10-467-657-5602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1
US-10-467-657-5602
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Publication No. US20050260581A1
GENERAL INFORMATION:
APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
APPLICANT: FIZZA Mariagrazia
APPLICANT: MISCANI Vega
APPLICANT: MASCANI Vega
APPLICANT: MONACI Blisabetta
TITLE OF INVENTION: GONOCOCCCAL PROTEINS AND NUCLEIC ACIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 5602
LENGTH: 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
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181 PEWLLFGYRG 190
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Similarity 70.0%;
7; Conservative
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Pred. No. 3.8;
2; Mismatches
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APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit
APPLICANT: Stache-Crain, Birgit
APPLICANT: Andarmani, Susan
APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and
FILE REFERENCE: B21A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt_SEQ_genes Version 1.0
SEQ ID NO 1277
LENGTH: 125
TYDE: DET
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US-11-174-150-34
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Best Local Similarity
Tatches 7; Conserve
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US-10-821-234-1277
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US-10-821-234-1277
Sequence 34, Application US/11174150
Publication No. US20050260714A1
GENERAL INFORMATION:
APPLICANT: Agarwal, Pankaj
APPLICANT: Murdoch, Paul R.
APPLICANT: Murdoch, Paul R.
APPLICANT: Smith, Randall F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 1084
LENGTH: 251
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Publication No. US20050255114A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
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PRIOR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Watch 46.1%;
Local Similarity 46.2%;
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R FILING DATE: 2001-05-25
DR APPLICATION NUMBER: 60/277,379
DR FILING DATE: 2001-03-21
DR APPLICATION NUMBER: 60/276,248
R FILING DATE: 2001-03-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/340,817
FILING DATE: 2001-12-19
APPLICATION NUMBER: 09/880,748
FILING DATE: 2001-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/331,469
FILING DATE: 2001-11-16
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Pred. No. 5.1;
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                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                 6; Length 125;
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APPLICANT: Agarwal, Pankaj
APPLICANT: Agarwal, Pankaj
APPLICANT: Murdoch, Paul R.
APPLICANT: Misth, Randall F.
APPLICANT: Stand, Zhaoying
TITLE OF INVENTION: NOVEL COMPOUNDS
FILE REFERENCE: GP50022
CURRENT APPLICATION NUMBER: US/11/174,150
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US/10/257,174
PRIOR FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: ECT/US01/11797
PRIOR APPLICATION NUMBER: 60/196,603
PRIOR APPLICATION NUMBER: 60/196,603
PRIOR APPLICATION NUMBER: 60/196,417
PRIOR APPLICATION NUMBER: 60/199,417
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                                                                                                                                                                    ; TYPE: PRT; ORGANISM: Homo sapiens US-11-174-150-35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; ORGANISM: Homo sapiens
US-11-174-150-34
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FOURTH APPLICATION NUMBER: US/11/174,150

CURRENT FILING DATE: 2005-07-01

PRIOR APPLICATION NUMBER: US/10/257,174

PRIOR FILING DATE: 2002-10-10

PRIOR APPLICATION NUMBER: PCT/US01/11797

PRIOR FILING DATE: 2001-04-11

PRIOR APPLICATION NUMBER: 60/196,603

PRIOR FILING DATE: 2000-04-13

PRIOR APPLICATION NUMBER: 60/199,417

PRIOR FILING DATE: 2000-04-24

NUMBER OF SEQ ID NOS: 48

SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; SEQ ID NO 34
; LENGTH: 107
; TYPE: PRT
                                                                                                                                                                                                                               SOFTWARE: FastSEQ for Windows Version SEQ ID NO 35
LENGTH: 1114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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Best Local (
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                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 48
961 EWSVWGSWYDRGA 973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               922 EWSVWGSWYDRGA 934
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                            3 DWLLWG---DRGA 12
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                                                                            43.3%;
Similarity 53.8%;
7; Conservation
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53.8%;
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Pred. No. 5
                                                                                                      Score 38.5;
Pred. No. 53
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US-11-054-515-1679 ; Sequence 1679, Application US/11054515 ; Publication No. US20050255532A1

RESULT 6

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; ORGANISM: Homo sapiens
US-11-054-515-1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 1679
LENGTH: 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 944, Appropriate Publication No.
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Best Local 9
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PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
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PRIOR PILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
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CURRENT FILING DATE: 2005-02-10
                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/543,296 PRIOR FILING DATE: 2004-02-11
                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS FILE REFERENCE: PF523P3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/293,499
FILING DATE: 2001-05-25
                                                                                                                                                                                    APPLICATION NUMBER: 60/331,469
FILING DATE: 2001-11-16
APPLICATION NUMBER: 60/340,817
FILING DATE: 2001-12-19
                                                         APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/240,816 FILING DATE: 2000-10-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/276,248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 09/880,748 FILING DATE: 2001-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 2001-12-19
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                                                                                                                        APPLICATION NUMBER: 60/293,499
                                                                                                                                                FILING DATE: 2001-06-1
                                                                                                                                                                  APPLICATION NUMBER: 09/880,748
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                                     APPLICATION NUMBER: 60/276,248
                                                                                                      FILING DATE: 2001-05-25
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Similarity 42.9%;
6; Conservative
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NUMBER: 60/240,816
                    2001-03-16
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Pred. No. 15;
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RESULT 9
US-10-821-234-1116
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; TYPE: PRT
; ORGANISM: mus musculus
US-10-967-527A-24
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-944
                                  ; ORGANISM: Homo sapiens
US-10-821-234-1116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Fox, Bria
APPLICANT: Holloway
APPLICANT: Sheppare
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                                                                                   CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt SEQ_genes Version 1.0
SEQ ID NO 1116
LENGTH: 225
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SEQ ID NO 944
                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                Sequence 1116, Application US/10821234 Publication No. US20050255114A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 24
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Query Match
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CURRENT FILING DATE: 2004-10-18
PRIOR APPLICATION NUMBER: 60/511,698
PRIOR FILING DATE: 2003-10-16
NUMBER OF SEQ ID NOS: 51
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                      FILE REFERENCE: 821A
                                                                                                                                                                                                                                                   APPLICANT: Andarmani, Susan
APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
                                                                                                                                                                                                                                                                                       APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit
APPLICANT: Andarmani, Susan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 03-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Holloway, James L.
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: Ztnfr14, A Tumor Necrosis Factor
TITLE OF INVENTION: Receptor
                                                                          LENGTH: 2
TYPE: PRT
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83.3%;
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42.9%;
 40.4%;
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 Score 36;
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 Length 225;
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                                                                                                                                                                                       ; OTHER INFORMATION: Description of Artificial Sequence: synthetic ; OTHER INFORMATION: amino acid sequence US-10-793-626-484
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US-10-793-626-484
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                                                                                              Query Match
Best Local Similarity
Watches 5; Conserva
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                                                                                                                                                                                                                                                                                              APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERWIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 484
LENGTH: 428
TYPE: DEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 484, Applic Publication No. US20 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
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SEQ ID NO 1006
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Matches
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CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: CHIRON SPA
APPLICANT: FONTANA MARÍA RÍTA
APPLICANT: FIZZA MARÍAGRAZÍA
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE
                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 322
TYPE: PRT
                                          333
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                                          WGDKGVYD 340
                                                                             WGDRGALD 14
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                                                                                                                  Conservative
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                                                                                                                                 40.4%;
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Pred. No. 38;
                                                                                                                               Score 36;
Pred. No.

    Mismatches

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l; Mismatches
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                                                                                                                                   DB 6;
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                                                                                                                2;
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                                                                                                                                                  Length 428;
                                                                                                                  Indels
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US-11-057-058-60
US-11-057-058-60
Sequence 60, Application US/11057058
Publication No. US20050244400A1
GENERAL INFORMATION:
APPLICANT: LeBowitz, Jonathan
APPLICANT: Magg, John
TITLE OF INVENTION: ACID ALPHA-GLUCOSIDASE AND FRAGMENTS THEREOF
FILE REFERENCE: SYM-011
CURRENT APPLICATION NUMBER: US/11/057,058
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: US 60/543,812
PRIOR FILING DATE: 2004-02-10
UNUMBER OF SEQ ID NOS: 68
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US-10-510-386-128
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-057-058-60
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                                                                                                                                                Sequence 128, Application US/10510386 Publication No. US20050244922A1 GENERAL INFORMATION:
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CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: US 60/543,812
PRIOR FILING DATE: 2004-02-10
NUMBER OF SEQ ID NOS: 68
SOFTMARE: Patentin version 3.3
APPLICANT: Jorgensen, Steen Troels
APPLICANT: Olsen, Peter Bjarke
APPLICANT: Rasmussen, Michael Dolberg
TITLE OF INVENTION: Improved Bacillus Host Cell
FILE REFERENCE: 10294.204-US
CURRENT APPLICATION NUMBER: US/10/510,386
                                                        APPLICANT: Andersen, Jens Tonne
APPLICANT: Clausen, Ib Groth
APPLICANT: Jorgensen, Steen Tro
APPLICANT: Olsen, Peter Bjarke
APPLICANT: Rasmussen, Michael I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: LeBowitz, Jonathan
APPLICANT: Mags, John
TITLE OF INVENTION: ACID ALPHA-GLUCOSIDASE AND FRAGMENTS THEREOF
FILE REFERENCE: SYM-011
                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 1857
TYPE: PRT
ORGANISM: Homo sapiens
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Local Similarity 45.5%;
es 5; Conservation
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Pred. No. 2.1e+02;
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Pred. No. 2.1e+0;
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RESULT 15

US-10-793-626-1466

US-10-793-626-1466

; Sequence 1466, Application US/10793626

; Publication No. US20050255478A1

; GENERAL INFORMATION:
    APPLICANT: KIMMERLY, WILLIAM JOHN

; TITLE OF INVENTION: STARHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
    FILE REFERENCE: PU3480US

; CURRENT FILING DATE: 2004-03-04

; PRIOR APPLICATION NUMBER: US/10/793,626

; CURRENT FILING DATE: 1999-11-09

; NUMBER OF SEQ ID NOS: 4472

; SOFTWARE: PATENTIN Ver. 2.1

; SEQ ID NO 1466

; LENGTH: 247

; TYPE: PRI
; ORGANISM: Artificial Sequence
    FEATURE:
    OTHER INFORMATION: Description of Artificial Sequence
    US-10-793-626-1466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT FILING DATE: 2004-10-04; NUMBER OF SEQ ID NOS: 248; SOFTWARE: PatentIn version 3.3; SEQ ID NO 128; LENGTH: 158; TYPE: PRT; ORGANISM: Bacillus licheniformis US-10-510-386-128
Search completed: December 4, 2005, 04:37:50 Job time : 5.375 secs
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186 WMNLWGNVGAL 196
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  GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd
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Q92553 MOUSE
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08w1a
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09bqb8
06gmx5
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096aa6
06pjb2
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RESULT 2  QBCGS2 MOUSE ID QBCGS2; AC QBCGS2; DT 01-WAR- DT 01-WAR- DT 01-WAR- DT 01-WAR- DT 01-WAR- DT 01-WAR- OC Mus mus OC Mus mus OC Musmali OC Muridae	Query Best Matcl	RA SONG X.T RA SONG X.T RT "Amplific RT variable RT variable RT Schistose RL Submittes DR SMR; Q9G DR InterPro DR InterPro DR SMR; Q9G DR InterPro DR SMR; Q9G DR InterPro DR SMR; Q9G DR InterPro DR SMR; Q9G DR INTERPRO REPOSITE; FT NON TER SQ SEQUENCE	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e u	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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RY; . 23 . 23 . 26 Fv 1	100.0% 100.0% ive 11 11	Guan ing and of mon of mon m."; to the to the 1452.1; Ig-lik Ig_v. Ig_LIKE; LIKE;	IMINARY; BLrel. 1 BLrel. 2 BLrel. 2 diotypic gion (Fr se). (Chord a; Elarc Mus.		114 2 114 2 117 2 118 2 120 1 121 2 134 2 135 1 137 1 137 2 137 2 139 2
PRT; reated) ast sequ ast anno da heavy Craniat Craniat	; Score 59; ; Pred. No. 0 0; Mismatche	H.; equence ana lonal anti- lonal anti- mBL/GenBank ; mRNA.	PRT; 1 reated) set sequen set annota istosoma j it). Craniata; gglires; G	ALIGNMEN	HV35 MOUSE Q91L81 MOUSE Q9QXF0 MOUSE HV39 MOUSE HV39 MOUSE HV3 MOUSE HV03 MOUSE HV01 MOUSE HV15 MOUSE HV11 MOUSE HV11 MOUSE HV07 MOUSE Q924R6 MOUSE Q924R6 MOUSE
121 AA. ence update) tation update) chain variable re chair variata; Eut Glires; Rodentia;	DB 2; Length 0.0053; s 0; Indel	of the ypic ant databas	19 AA. ce update) tion update) aponicum antibody vertebrata; Eute: Vertebrata; tite:		
region uteleostomi; a; Sciurognathi	119; ls 0;	heavy chain ibody NP30 (	NP30 leosta		P01804 mu P0181 mu Q9g181 mu Q9gxf0 mu Q9gxf0 mu Q92164 mu P01747 mu P01745 mu P01759 mu P01759 mu P01759 mu P01759 mu P01759 mu P01750 mu P01751 mu
mi; gnathi;	Сарв	in 0 of	heavy mi; gnathi;		mus musculu
	0,			4	

NUCLEOTIDE SEQUENCE NCBI_TaxID=10090;

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RESULT 3
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Best Local
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HV2I HUMAN
P06331;
                                             SIGNAL
CHAIN
REGION
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InterPro; IPR0077110; Ig-1ke.
InterPro; IPR003596; Ig-
InterPro; IPR003596; Ig-
SMART; SM00406; IGv; 1.
SMART; SM00406; IGv; 1.
SPROSITE; PS50835; IG-LIKE; 1.
                                                                                                                                                                                                               SP, P01825; 7FAB.

SP, P01825; 7FAB.

AR; P06331; 21-146.

AR; P06331; 21-146.

G0:0005576; C:extracellular region; NP.

G0:0005376; F:antigen binding; NAS.

JO; G0:0003823; F:antigen binding; NAS.

InterPro; IPR007110; Ig-like.

TnterPro; IPR003596; Ig_v.

TnterPro; IPR003596; Ig_v.
                                                                                                                                                                                                                                                                                                                                                                                                                                       PIR; A02101; G1HUH2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gene 33:181-189(1985).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "A cloned human immunoglobulin heavy chain gene with a novel direct-
repeat sequence in 5' flanking region.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE.
MEDLINE=85205332; PubMed=3922855; DOI=10.1016/0378-1119(85)90092-7;
Kudo A., Ishihara T., Nishimura Y., Watanabe T.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JAN-1988 (Rel. 06, Created)
01-JAN-1988 (Rel. 06, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
Ig heavy chain V-II region ARH-77 precursor.
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Submitted (SEP-2002) to the EMBL/GenBank/DDBJ
EMBL; AY15:1140; AAN75452.1; -; mRNA.
HSSP; P01751; 1NQB.
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D segment.
J segment.
By similarity.
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Pred. No. 0.0054;
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     8D7FD52BB218171F CRC64;
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DBJ databases.
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RESULT
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21-JUL-1986 (Rel. 01, Created,
16-OCT-2001 (Rel. 40, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
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P01744;
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                                                                                                                                                             CHAIN
DOMAIN
                                                                                                                                                                                               SMART; SM00406; IGv; 1.

PROSITE; P850835; IG_LIKE; 1.

Direct protein sequencing; Immunoglobulin domain; Immunoglobulin V region; Pyrrolidone carboxylic a
                                                                                                                                                                                                                                                                                                                                                                             This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROTEIN SEQUENCE OF 20-147.

Bennich H.H., Johansson S.G.O., von Bahr-Lindstrom H.;

(In) Bach M.K. (eds.);

Immediate hypersensitivity: modern concepts and developments, pp.1-36,

Marcel Dekker, New York (1978).

-I- MISCELLANEOUS: This epsilon chain was isolated from a myeloma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kenten J.H., Molgaard H.V., Houghton M., Derbyshire R.B., Viney Bell L.O., Gould H.J., "Repair of the gene for the human "Cloning and sequence determination of the gene for the human immunoglobulin epsilon chain expressed in a myeloma cell line.", proc. Natl. Acad. Sci. U.S.A. 79:6661-6665(1982).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ig heavy chain V-I region ND precursor (Fragments).
Homo sapiens (Human).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homin
                                                                                                                                                                                                                                                                                GO; GO:0005576; C:extracellular region; GO; GO:0003823; F:antigen binding; NAS. GO; GO:0006955; P:immune response; NAS.
                                                                                                                                                                                      Immunoglobulin
SIGNAL :
                                                                                                                                                                                                                                                                                                                                                                    use as
                                                                                                                                                                                                                                                                                                                                                                                                                             protein.
-i- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=83065234; PubMed=6815656;
                                                                                                                                                                                                                                                      InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
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IH -> HI (in Ref. 2).
VG -> GV (in Ref. 2).
Missing (in Ref. 2).
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Score 59; DB 1;
Pred. No. 0.0067;
Mismatches 0
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Ig-like.
Pyrrolidone carboxylic
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                                                    948F9F72A5366C20 CRC64;
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RESULT 6
Q96QS0 HUMAN
Q96QS0 HUMAN PRELIMINARY;
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Q96QS0;
DT
O1-DEC-2001 (TrEMBLrel. 19,
DT
O1-DEC-2001 (TrEMBLrel. 25,
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Homo sapiens (Human).
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Homo sapiens (Human).
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Homo sapiens (Human).
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Homo Homo sapiens (Human).
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Homo Sapie
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Q925S3 MOUSE P
AC Q1 D.X. Zeng RA YANX.J. HOU MECHANISM OF RI WORLD J. Zeng RA YANX.J. HOU MACHAIN GRANG COID. Zeng RA YANX.J. HOU MACHAIN GART THE BALB/6; RC STRAIM-BALB/6; RC STRAIM-BALB/6; RA WOLLEOTIDE SE RE WOLLEOTIDE SE RE MUCLEOTIDE SE RE MOUSE POINTS OF RADIAL DR RABIL AP24016 DR REMBL, AP24016 DR SMR; Q925S3; DR InterPro; IPRI DR SMR; PROSITE; PS500 DR PROSITE; PS500 MM Immunoglobulin SQ SEQUENCE 14'
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Int. J. Radiat. Biol. Relat. Stud. Phys. EMBL; AF240166; AAK43731.1; -; mRNA. HSSP; P01751; 1A6W. SMR; Q925S3; 3-139.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Buarchontoglires; Glires; Rodentia; Sciurogna
Muroidea; Muridae; Mus.
                                                                                                                                                                                                                                                            Putative matrix cell adhesion molecule-3.
Homo sapiens (Human).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homin
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PROSITE; PS50835; IG LIKE; 1.
Immunoglobulin domain.
                                                                                                                                                                                                                                                                                                                                                                       01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
                                   Tilson M.D.;
Submitted (JUN-2001) to the EMBL/GenBank/DDBJ
EMBL; AY039025; AAK82649.1; -; mRNA.
HSSP; P01869; 1AE6.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Mechanism of exogenous nucleic acids and the repair of intestinal epithelium after
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE.
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(TrEMBLrel. 25, Last annotation update)
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PRELIMINARY;

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RESULT 8
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ID Q925S1 MOUSE F
AC Q925S1;
DT 01-DEC-2001 (T
DT 01-DEC-2003 (T
DT 01-OCT-2003 (T
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SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Immunoglobulin domain.
SEQUENCE 159 AA; 17497 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the same strain.";
Int. J. Raddat. Biol. Relat. Stud. Phys. Chem. Med. 19:71-80(2001).
EMBL; AF240167; AAK43732.1; -; mRNA.
HSSP; P01751; 1A6W.
SMR; Q925S2; 3-124.
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Mammalia; Eutheria; Euarchor
Muroidea; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cui D., Zeng G., Yan X., Li X., Su C.; "Cloning of mouse genes related to repairing of the irradiated mice by treatment with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Mechanism of exogenous nucleic acids and their precursors : the repair of intestinal epithelium after gamma-irradiation world J. Gastroenterol. 6:709-717(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN=BALB/c;
PubMed=11819679;
Cui D.X., Zeng G.Y.,
Yan X.J., Hou Y., Su
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01-DEC-2001
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Q925S2;
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                                                                                                                                                                                                                                                                                                                                                                                                                  immunoglobulin domain.
seQUENCE 170 AA; 17
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Q921A6;
Q91A6;
Q1-DEC-2001 (TrEMBLrel. 19, Created)
Q1-DEC-2001 (TrEMBLrel. 19, Last sequence update)
Q1-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Anti-CEA 79 single chain Fv (Fragment).
Mus musculus (Mouse).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE.
MEDINE-98170165; PubMed-9509426;
Chung J.H., Choi S.J., Kim H.J., Kim I.J., Choi I.H.,
Yi K.S., Suh P.G., Ryu S.H., Chung H.K.;
"Cloning and characterization of cDNAs encoding VH an
monoclonal anti-CEA antibody (CEA 79) cross-reactive
generation of a single-chain Fv molecule (scFv).";
Mol. Cells 7:816-819(1997).
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[2]
protein epitope use structurally distinct J. Exp. Med. 174:613-624(1991).

EMBL; U88067; AAB48044.1; -; mRNA.

PIR; $1.9965; $1.9965.

PIR; $1.9967; $1.9967.

PIR; $1.9968; $1.9968.
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Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
Muridae; Murinae; Mus.
                                                                                                                                                                                                                                    MEDLINE=91341421; PubMed=1908510; Stark S.E., Caton A.J.;
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NON_TER 218 218
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InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLECTIDE SEQUENCE STRAIN=BALB/c;
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                                                                                                                                                                       *Antibodies that are specific for a single amino ac protein epitope use structurally distinct variable
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X.J., Hou Y., Su
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 59;
Pred. No.
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                                                                                                                                                                                                                                                                   DOI=10.1084/jem.174.3.613;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  intestinal epithelium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                I.H., Lee
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NCA-95
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RESULT 11
Q9NPP6 HUMAN
Q9NPP6 HUMAN
ID Q9NPP6;
AC Q9NPP6;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-DCT-2000 (TrEMBLrel. 15, Last sequence updated)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation upport of the control of the con
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Matches 11
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Best Local
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GO; GO:0004872; F:receptor activity;
GO; GO:0004872; F:receptor activity;
InterPro; IPR007110; Ig-11ke.
InterPro; IPR003597; Ig_c1.
InterPro; IPR003006; Ig_MHC.
Pfam; PF07654; C1-set; 3.
SMART; SM00407; IGC1; 3.
PROSITE; PS00290; IG_MHC; UNKNOWN_2.
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SEQUENCE
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Q6PYX1;
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HSSP; P01607; 1BWW.
Ensembl; ENSMUSG00000021155; Mus
InterPro; IPR007110; Ig-11ke.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 2.
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hepatitis B virus receptor binding protein (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (MAR-2004) to the EMBL; AY570731; AAS88328.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniat;
Mammalia; Eutheria; Euarchontoglires;
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                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PDB; 1T89; X-ray; A/B=-.
SMR; Q6PYX1; 3-348.
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Submitted (MAR-2004)
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Pred. No. 0.0
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DD96C3D7E0BE5845 CRC64;
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0.017;
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Best Local Similarity
Matches 11; Conser
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InterPro; IPR003597; Ig_cl.
InterPro; IPR003597; Ig_mHC.
InterPro; IPR003596; Ig_mHC.
InterPro; IPR003596; Ig_r.
Pfam; PF07654; Cl-set; 2.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 3.
PROSITE; PS50835; IG_MHC; UNKNOWN_2.
NON_TER 1 1
SEQUENCE 416 AA; 44786 MW; 8C417088
    Query Match 100
Best Local Similarity 100
Matches 11; Conservative
                                                                                                                                InterPro; IPR003599; Ig.
InterPro; IPR003597; Ig_cl:
InterPro; IPR003597; Ig_cl:
InterPro; IPR003597; Ig_MHC.
InterPro; IPR003596; Ig_wC.
InterPro; IPR003596; Ig_v.
Pfam; PP07654; Cl-set; 3.
SMART; SM00409; IG; 2.
SMART; SM00407; IGC1; 3.
SMART; SM00406; IGC1; 3.
SMART; SM00406; IGC1; 3.
SMART; SM00406; IGC1; 3.
SMART; SM00406; IGV; IG.
PROSITE; PS50835; IG_LIKE; 4.
PROSITE; PS50835; IG_MHC; UNKNOWN_2.
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Q60089;
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Lehrach H.,
Submitted (J
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-UUL-2004 (TrEMBLrel. 27, Created)
05-UUL-2004 (TrEMBLrel. 27, Last sequence update)
05-UUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp686P15220.
Name=DKFZp686P15220;
                                                                                                                                                                                                                                                                                                                                                                                                              Fobo G., Han M., Wiemann S.;
Submitted (JAN-2005) to the EMBL/GenBank/DDBJ databases
EMBL; BX640627; CAE45781.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pluvinet R.
                                                                                              Hypothetical SEQUENCE 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wambutt R
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        German cDNA Consortium;
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., Poustka
(JUL-2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ., Heubner D., Mewes H.W.,
                                                                                            al protein.
472 AA; 5
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ne EMBL/GenBank/DDBJ databases.
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Score 59; DB 2;
Pred. No. 0.024;
Mismatches
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Pred. No. 0.021;
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                                                                                              26CB340D0046D279
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                                               Length 472;
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RESULT OR RESULT
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Mozley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Rodrigues S., Sanchez A.,
RA Hiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT Tigeneration and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RT Torch Natl Acad Sci II S. A Galfagalfond
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                                                      Ensembl; ENSG00000196122; Homo sapiens InterPro; IPR007110; Ig-like. InterPro; IPR003597; Ig_cl. InterPro; IPR003597; Ig_cl. InterPro; IPR003596; Ig_w. InterPro; IPR003596; Ig_v. InterPro; IPR00477; Ig; 2. SMART; SM00406; IGv; 1. SMART; SM00406; IGv; 1. PROSITE; PS50835; IG_LIKE; 4. PROSITE; PS50835; IG_MHC; UNKNOWN_2.
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QBWU38 HUMAN PRELIMINARY;
QBWU38;
                                                                                                                                                                                                                                                                                                                                                                        Eur. J. Biochem. 205:341-345(1992).
EMBL, BC021276; AAH21276.1; -; mRNA.
PIR; S21205; S21205.
PIR; S30532; S30532.
HSSP; P18529; 118K.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Makiya R., Stigbrand T.;
Placental alkaline phosphatase has a
immunoglobulin-G Fc portion.";
Eur. J. Biochem. 205:341-345(1992).
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Director MGC Project;
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      lobulin domain; Repeat.
E 573 AA; 62967 MW;
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Last sequence update)
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      FD072344033AC530 CRC64;
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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schwutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schwutz J., Myers R.M.,
RA Rodriguez A.C., Schein J.E., Jones S.J.M., Marra M.A.;
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT and mouse cDNA sequences.";
Query Match
Best Local S
Matches 11
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HSSP; P01820; 1A7N.
Ensembl; ENSG00000196122; Homo sapiens.
InterPro; IPR003599; Ig.
InterPro; IPR003599; Ig.
InterPro; IPR003597; Ig.cl.
InterPro; IPR003597; Ig.cl.
InterPro; IPR003596; Ig.MHC.
SMART; SM00409; IG: 1.
SMART; SM00400; IG: 1.
SMART; SM004006; IG: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
Homo sapiens (Human).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Buarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
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Q6P4I8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg R.; Submitted (DEC-2003) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE=Primary B-Cells;
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                                                                                                    PS50835; IG_LIKE; 4.
PS00290; IG_MHC; UNF
576 AA; 63364 MW;
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100.0%; Pred. No. 0.03;
                       100.0%; Score 59; DB 2; 100.0%; Pred. No. 0.031;
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27,
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                                                  DB 2; Length 576;
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RESULT 15

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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Millahy S.J.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Millahy S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,

Pahey J., Helton B., Ketteman M., Maddan A., Rodrigues S., Sanchez A.,

A Pahey J., Helton B., Kotteman M., Maddan A., Rodrigues S., Sanchez A.,

A Raha S.S., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M.,

A Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M.,

Bakesley R.W., Touchman J.E., Jones S.J.M., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human

"Generation and initial analysis of more than 15,000 full-length human
                                          InterPro; IPR003599; Ig.
InterPro; IPR007110; Ig-like.
InterPro; IPR007110; Ig-like.
InterPro; IPR003597; Ig cl.
InterPro; IPR003906; Ig MHC.
InterPro; IPR003906; Ig v.
Pfam; PP07654; Cl-set; 4.
SMART; SM00409; IG; 2.
SMART; SM00407; IGcl; 4.
SMART; SM00407; IGcl; 4.
SMART; SM00406; IGv; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS00290; IG_MHC; UNKNOWN_3.
                                                                                                                                                                                                                                                                                                                                HSSP; P01861; 1ADQ.
SMR; QBWUX4; 27-256.
Ensembl; ENSG00000130076; Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAR-2002 (TrEMBLrel. 20, 
01-MAR-2004 (TrEMBLrel. 26, 
01-MAR-2004 (TrEMBLrel. 26,
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QBWUX4;
Hypothetical SEQUENCE 59
                                                                                                                                                                                                                                                                                                                                                                                                                                  reveals apparent restricted use of VH
J. Immunol. 142:4054-4061(1989).
EMBL; BC019235; AAH19235.2; -; mRNA.
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Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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PIR; G34964; G34964.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=89235232; PubMed=2497188;
Sanz I., Casali P., Thomas J.W., Noth
"Nucleotide sequences of eight human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (DEC-2001) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Strausberg R.;
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     sl protein
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     65291 MW;
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     0D4B50776545714E CRC64;
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natural autoantibody VH regions

Capra J.D.;

full-length human

Sob time: 102.375 ecce	Query Match 100.0%; Score 59; DB 2; Length 595;  Best Local Similarity 100.0%; Pred. No. 0.032;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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73.3	73.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	76.7	76.7	76.7	76.7	78.3	78.3	78.3	78.3	78.3	78.3	78.3	80.0	100.0	100.0	Match	*
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ADY70216	AAU02710	ADG96416	ABP45589	ADW04946	AEB01019	ADW77426	ADG97884	ABP47057	ADW04952	ADW04810	ADZ41994	ADW04816	ADR38712	AEB45853	AEB45891	ADR28082	ADV86824	ADD28237	ADD28323	ADD28082	AEB45960	ADR38725	ADR38724	ID	
Ady70216 Human Mab		Adg96416 Single ch	Abp45589 Human BLy	Adw04946 PAPP-A im	Aeb01019 Human hea	Adw77426 Human pla		Abp47057 Human BLy	Adw04952 PAPP-A im	_	Adz41994 Ig H chai	Adw04816 PAPP-A im	Adr38712 Mouse hea	Aeb45853 Human mon	Aeb45891 Human mon	Adr28082 NPB polyp	Adv86824 Bacillus	Add28237 Human het	Add28323 Human het	Add28082 Lymphoma	Aeb45960 Human mon	Adr38725 Mouse hea	use h	Description	

# 02-DEC-2004 ADR38724; ADR38724 standard; peptide; 11 AA (first entry)

RESULT 1

ALIGNMENTS

Mouse heavy chain variable region CDR3 segid 126

antibacterial; antibody; botulinum neurotoxin type A; BoNT/A; BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3.

#### 09-SEP-2004. Mus sp. US2004175385-A1

31-AUG-1998; 98US-00144886. 01-AUG-2002; 2002US-0400721P. 01-AUG-2003; 2003US-00632706.

Marks JD, (REGC ) UNIV CALIFORNIA. Amersdorfer P;

WPI; 2004-652009/63.

New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.

Example 3; SEQ ID NO 126; 110pp; English.

The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone 25, C25, C39, ICG, 3D12, B4, IF3, huC25, A1, Ar2, WR1(V), WR1(T), 3-1, 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum neurotoxin type A (BoNT/A). Also described are: a polypeptide (II) comprising BoNT/A neutralising epitope having an epitope that is

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RESULT 2
ADR38725
    CC producing (I); and a composition (III) comprising several anti-
CC botulinum neurotoxin antibodies, where each antibody is specific for a
CC different epitope of a botulinum neurotoxin and the combination of
CC antibodies shows greater toxin neutralisation than the single antibodies
CC in surplus. The following are disclosed; a pharmaceutical composition
CC comprising (I); and a kit comprising (I). (I) is useful for neutralising
CC BONT/A antibody and for neutralising a botulinum neurotoxin which
CC involves contacting neurotoxin with (I) in surplus, where each of (I) is
CC specific for a different epitope of the botulinum neurotoxin and the
CC combination of antibodies shows greater toxin neutralisation than the
CC single antibodies in surplus. (I) is useful for diagnosing the botulism
CC poisoning. (I) exhibits specificity and affinity towards BONT/A. (I)
CC enables rapid detection or diagnosis of botulism. This is the amino acid
CC sequence of mouse heavy chain variable region complementarity determining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 11; Conserv
The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone S25, C25, C39, 1C6, 3D12, B4, 1F3, huC25, Ar1, Ar2, WR1(V), WR1(T), 3-1,
                                                                                                                                                                                                        New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                    31-AUG-1998; 98US-00144886.
01-AUG-2002; 2002US-0400721P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antibacterial; antibody; botulinum neurotoxin type A; BoNT/A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADR38725 standard; peptide; 11 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               specifically bound by an antibody expressed by clones as mentioned in producing (I); and a composition (III) comprising several anti-
                                                                                                                                                                                                                                                                                                                                           Marks JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-AUG-2003; 2003US-00632706.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mouse heavy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-DEC-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADR38725
                                                                                                                                                            Example 3;
                                                                                                                                                                                                                                                                                                                                                                                        (REGC ) UNIV CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 LATYYYFGLDV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LATYYYFGLDV 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (CDR3) from
                                                                                                                                                                                                                                                                                                                                              Amersdorfer P;
                                                                                                                                                       SEQ ID NO 127; 110pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chain variable region CDR3 seqid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            anti-botulinum neurotoxin antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 60; DB 8;
Pred. No. 0.0017;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                127.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gape
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cc specifically bound by an antibody expressed by clones as mentioned in (I) producing (I); and a composition (III) comprising several anti-
cc different epitope of a botulinum neurotoxin and the combination of comprising (I); and a kit comprising (I). (I) is useful for neutralising comprising (I); and a kit comprising (I) is useful for neutralising comprising (I); and a kit comprising a botulinum neurotoxin which composition comprising (I); and a kit comprising a botulinum neurotoxin which composition of involves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin and the complication of antibodies shows greater toxin neutralisation than the complementation than the single antibodies in surplus. (I) is useful for diagnosing the botulism complementarity determining complementarity determining energies complementarity determining compl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammation; inflammatory bowel disease; Crohns disease; ulcerative colitis; diverticular disease; gastritis; liver disease; primary belarosing cholangitis; primary sclarosing cholangitis; insulin dependent diabetes; graft versus host disease; antiinflamma!
                                                                                                                                                                                                                         (PFIZ )
(ABGE-)
(PFIZ )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       insulin dependent diabetes; graft versus host di
gastrointestinal-gen.; antiulcer; hepatotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human monoclonal anti-MAdCAM antibody related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AEB45960 standard; protein; 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 11 AA;
                                                                                                                                                                                                                                                                                                                      09-JAN-2004; 2004US-0535490P
                                                                                                                                                                                                                                                                                                                                                                 07-JAN-2005; 2005WO-US000370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Monoclonal antibody; mucosal addressin cell adhesion molecule;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3-8, 3-10 and ING1,
                                                                                                                                   WPI; 2005-554958/56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2005067620-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           region 3 (CDR3) from anti-botulinum neurotoxin antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mmunosuppressive;
                                                                                                                                                                              N, Molloy E,
                                                                                                                                                                                                                                                                           PFIZER INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                           ABGENIX INC.
PFIZER LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LATYYYFGLDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antibody.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                Kellermann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 60; DB
Pred. No. 0.0
0; Mismatches
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                                                                                                                                                                                Green
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.0017;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 11;
                                                                                                                                                                                Haak-Frendscho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MAdCAM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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disease, ulce graft versus

disease

New antibody to Mucosal Adressin Cell Adhesion Molecule, useful for diagnosing and treating an inflammatory disease, e.g. inflammatory bodisease, ulcerative colitis, gastritis, insulin-dependent diabetes or

bowel

Example 5; Fig 1; 167pp; English

The invention relates to a human monoclonal antibody or its antigence chinding portion that specifically binds to mucosal addressin cell cally binds to mucosal antibody. a pharmaceutical cell line that produces the human monoclonal antibody, a pharmaceutical composition monecoung an amount of the monoclonal antibody or its antigen-binding portion and a pharmaceutical carrier, a method of treating inflammatory disease in a subject, an isolated cell line that comprising an amount of the monoclonal antibody or its portion or the produces the monoclonal antibody or of its portion, an isolated cell mavy chain or light chain of the antibody or of its portion or the heavy chain or light chain of the antibody or of its portion, an isolated comprising a nuclecide sequence encoding the heavy chain or light chain of the antibody or of its portion, an isolated cell control sequence operably linked to the nucleic acid molecule, where the vector optionally comprising the comprising the vector or the nucleic acid molecule above, a corression control sequence operably linked to the mucleic acid molecule, and cell correct optional antibody or its antigen-binding portion that specifically binds to madcam, a method of producing a human monoclonal antibody or its antigen-binding corries matigen-binding portion that specifically binds to Madcam, a method of inhibiting alphabeta/Madcam, a method of a human antibody or its antigen-correct of alphabeta, and the producing alphabeta/Madcam, a method of inhibiting alphabeta/Madcam, a method of diagnosing a disorder ceruitment of lymphocytes to captesing human madcam, and infiltration into tissues, a composition in a subject. The antibody, composition and methods are custing and treating inflammatory disease, colliss, cirhosis, primary sclerosing cholangitis, insulin dependent diabetes and custing of cirhosis, primary sclerosing cholangitis, insulin dependent diabetes and custing and treating inflammatory disease. This sequence represents a human monoclonal custom of the invention.

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Best Local
                                                                                                                       B-cell; malignant; immunoglobulin; immunoglobulin variable region; Ig variable region; glycosylation site; lymphoma; B cell receptor; cytostatic; gene therapy; glycosylation inhibitor; non-Hodgkin's lymphoma.
07-MAR-2002; 2002GB-00005395
                      24-FEB-2003; 2003WO-GB000783.
                                                                  WO2003074059-A2
                                                                                       Homo sapiens
                                                                                                                                                                                 Lymphoma related immunoglobulin variable region.
                                                                                                                                                                                                        15-JAN-2004 (first entry)
                                                                                                                                                                                                                                                     ADD28082 standard; protein; 114
                                                                                                                                                                                                                                                                                                              100 VVTYYYYGMDV 110
                                                                                                                                                                                                                                                                                                                                     1 LATYYYFGLDV 11
                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                        80.0%;
63.6%;
                                                                                                                                                                                                                                                                                                                                                            Score 48; DB 9; Length 122; Pred. No. 2.5; Indels 1; Indels
                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                             Gaps
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RESULT 5
ADD23
IID ADD2
XX
AC ADD2
XX
DT 15-0
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DY 15-0
XX
W huma
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Edward Huma
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W edem
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W edmanti
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Ven
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PF 11-1
PR 29-1

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cc malignant or normal comprising: (a) isolating a sequence representing an communoglobulin (Ig) variable region from the B cell; (b) detecting the cc presence of a glycosylation site; and (c) classifying the cell as cc malignant or normal on the basis of the presence or absence of a cc glycosylation site. Also described: (1) treating a patient suffering from cor at risk of having lymphoma; (2) screening for substances capable of inhibiting glycosylation of the Ig variable region of the B cell receptor cc; and (3) screening for substances (S) capable of inhibiting the cnteraction between lectins of the type found in the germinal centre and cc notatic activity, and can be used in gene therapy, and as a cc glycosylation inhibitor. The method is useful in classifying a B-cell as cc glycosylation inhibitor. The method is useful in classifying a B-cell as cc medicament for treating non-Hodgkin's lymphoma. The present sequence cc represents an Ig variable region sequence which is used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                 11-FEB-2002;
29-APR-2002;
27-SEP-2002;
25-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Classifying a B-cell as malignant or normal by isolating a sequence representing an Ig variable region from the B cell, detecting the presence of a glycosylation site and classifying the cell as malignant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           protective antigen; Bacillus anthracis; anthrax infection; cell recept
edema factor; lethal factor; virucide; antibacterial; immunotherapy;
anti-toxin; anti-infective; anthrax; botulinum; smallpox;
Venezuelan equine encephalomyelitis virus; VEEV; West Nile virus; WNV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes a method for classifying a B-cell as malignant or normal comprising: (a) isolating a sequence representing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Fig 3; 61pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    human heterodimeric antibody; human; antibody; binding affinity; protective antigen; Bacillus anthracis; anthrax infection; cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human heterodimeric antibody heavy chain variable region SEQ ID NO:101.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADD28323;
                                                                                                                                                                                            11-FEB-2003; 2003WO-US004206
                                                                                                                                                                                                                                                                                                                                                                                     Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADD28323 standard;
                                                                                                                                                                                                                                                       18-SEP-2003.
                                                                                                                                                                                                                                                                                                                      WO2003076568-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (CANC-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 TYYYFGLDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CANCER RES TECHNOLOGY LTD
                                 ; 2002US-0356086P.
; 2002US-0376408P.
; 2002US-0414053P.
; 2002US-0428807P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein; 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          78.3%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 47;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 114;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              receptor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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Sequence 122

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ARBSULT 6
ADD28237
ID ADD2
XX ADD2
XX ADD2
XX ADD2
XX Huma
XX huma
XX huma
XX edem
XX Vene
XX Vene
XX Vene
XX Vene
XX Yon
OS Synt
OS Synt
OS Homo
XX II-F
PR 11-F
PR 11-F
PR 11-F
PR 11-F
PR 27-S
PR 29-A
PR 25-N
XX WPI,
XX WPI,
XX WPI,
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Best Local S
Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a human heterodimeric antibody (I) (fragment) having a binding affinity of at least 1x10-8 M to the protective antigen of Bacillus anthracis or a molecule involved in anthrax infection that blocks binding of the antigen or molecule to cell receptors, edema factor and lethal factor. (I) has virucide and antibacterial activities, and can be used in immunotherapy. The antibodies (I) are useful as anti-toxins or anti-infectives with respect to infective agents, such as anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis virus (VBFV), or West Nile virus (WBV). The
                 WPI; 2003-722327/68
                                               Bowdish KS,
                                                                                                       11-FEB-2002; 2002US-0356086P.
29-APR-2002; 2002US-0376408P.
27-SEP-2002; 2002US-0414053P.
25-NOV-2002; 2002US-0428807P.
                                                                                                                                                                                                               18-SEP-2003.
                                                                                                                                                                                                                                            WO2003076568-A2
                                                                                                                                                                                                                                                                                                                                   protective antigen; Bacillus anthracis; anthrax
edema factor; lethal factor; virucide; antibacto
anti-toxin; anti-infective; anthrax; botulinum;
                                                                                                                                                                                                                                                                                                                                                                  human heterodimeric antibody; human; antibody; binding affinity; protective antigen; Bacillus anthracis; anthrax infection; cell
                                                                                                                                                                                                                                                                                                                                                                                                                Human heterodimeric
                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADD28237 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              present sequence represents a human heterodimeric antibody heavy variable region amino acid sequence, which is used in the exempli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 11; SEQ ID NO 101; 67pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New human heterodimeric antibodies or their antibody fragments, useful as anti-toxins or anti-infectives with respect to infective agents, e.g. anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis or West
                                                                                                                                                                                 11-FEB-2003; 2003WO-US004206
                                                                                                                                                                                                                                                                          Homo
                                                                            (ALEX-)
                                                                                                                                                                                                                                                                                                                      Venezuelan equine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 virus.
                                                                                                                                                                                                                                                                          sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                present invention.
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7; Conserv
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                                                                           ALEXION PHARM
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                                               Wild MA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 113
                                                                                                                                                                                                                                                                                                                                                                                                              antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                 Bacillus anthracis; anthrax infection; cell rece factor; virucide; antibacterial; immunotherapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          78.3%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INC.
                                                                            INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 47;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                             heavy chain variable region SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                      virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   , 7;
                                                                                                                                                                                                                                                                                                                     VEEV; West Nile virus; WNV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 129;
                                                                                                                                                                                                                                                                                                                                    smallpox;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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the exemplification
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                                                                                                                                                                                                                                                                                                                                                                                                              ID NO:15
                                                                                                                                                                                                                                                                                                                                                               receptor;
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(fragment) having a binding affinity of at least 1x10-8 M to the protective antigen of Bacillus anthracis or a molecule involved in anthrax infection that blocks binding of the antigen or molecule to cell receptors, edema factor and lethal factor. (I) has virucide and antibacterial activities, and can be used in immunotherapy. The antibodies (I) are useful as anti-toxins or anti-infectives with respect to infective agents, such as anti-toxins or anti-infectives with respect to infective agents, such as anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis virus (VEEV), or West Nile virus (WNV). The
                                                                                                                                                                                                                                                                                                                                                                         Nile
Sequence
                                                             present sequence represents a human heterodimeric antibody heavy chain variable region amino acid sequence, which is used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                              New human heterodimeric antibodies or their antibody fragments, useful as anti-toxins or anti-infectives with respect to infective agents, e.g. anthrax, botulinum, smallpox, Venezuelan equine encephalomyelitis or West
                                                                                                                                                                                                                                                                                                                                Claim
                                           the present invention.
                                                                                                                                                                                                                                                                                     present invention
                                                                                                                                                                                                                                                                                                                                                                            virus.
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134
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                                                                                                                                                                                                                                                                                                                                15;
                                                                                                                                                                                                                                                                                       describes a human heterodimeric antibody
                                                                                                                                                                                                                                                                                                                            67pp;
                                                                                                                                                                                                                                                                                                                              English
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Query Match
Best Local s
Matches
110
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                           . Similarity 7; Conserv
TYYYYGMDV 118
              TYYYFGLDV
                            Conservative
             11
                                   78.3%;
77.8%;
                                   Score
Pred.
                             Mismatches
                                  47;
No.
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                                          7;
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                             Indels
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RESULT 7
ADV86824
ADV86824
ADV86824
AC ADV8
AC ADV8
AC ADV8
AC ADV8
DT 10-M
XX Biot
XX W020
XX W020
A Cithe
PT Celi
                                                                                                                                                                                                                                                                                          antibacterial;
                                                                                                                                                                                                                                                                                                 Bioterrorism;
                                                                                                                                                                                                                                                                                                                                                            ADV86824;
                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                         10-MAR-2005
                                                                                                                                                                                                                                                                                                                                                                              ADV86824 standard; protein; 134 AA
                                                                                                                                                                                                                                                                                                                      anthracis toxin Fab 9 K 2e G
                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                        Bacillus anthracis infection; vaccine; antibody; heavy chain variable region.
                                                                                                                                                                                                                                                                                                                     pro heavy chain variable region.
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WO2004110362-A2

23-DEC-2004

26-MAY-2004; 2004WO-US016557

2003US-00452593

(ALEX-) ALEXION PHARM INC.

ଞ Frederickson Wild ¥, Maruyama Η

Nolan

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2005-057715/06.

ating an animal with anthrax infection by administering protective antigen of Bacillus anthracis, and blocking receptors, edema factor or lethal an antibody binding to 6

Claim 7; **QES** ij NO 15; 87pp; English

A claimed method for treating an animal infected with Bacillus anthracis comprises administering an antibody or antibody fragment that binds to a molecule involved in anthrax infection and which has the ability to block the binding of the molecule to at least one of a cell receptor, PA63, lock the binding of the molecule to at least one of a cell receptor, PA63, PA63 heptamer, PA83, edema factor and lethal factor. A claimed method for determining exposure to B. anthracis comprises assaying a sample for the presence of a molecule selected from cell receptors, PA63, PA63 heptamer,

Sequence 134 AA;

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RESULT 8
ADR28082
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Best Local S
Matches 7
                                                                                                                                                                                                                                Cytostatic; metastasis inhibitor; neuropilin binder; NPB; scFv; single chain antibody; neuropilin-1; NP-1; angiogenesis; tumour; cancer.
                                                                                                                                                                                                                                                            NPB polypeptide scFv27, seq id 29.
                                                                                                                                                                                                                                                                               07-OCT-2004
                                                                                                                                                                                                                                                                                                                 ADR28082 standard; protein;
                                                                       20-DEC-2002; 2002US-0435893P
15-JAN-2003; 2003EP-00000615
                                                                                                                                                                                                     Mus sp.
Synthetic
                                                                                                                                                                                                                               single chain
WPI; 2004-507700/48
                 Unger CM, Beste
Jay DG, Eustace
                                                                                                  22-DEC-2003; 2003WO-EP014756
                                                                                                                     08-JUL-2004
                                                                                                                                       WO2004056874-A2
                                             (XERI-) XERION PHARM (TUFT) UNIV TUFTS.
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                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                              (first
                                                                                                                                                                         Location/Qualifiers 87. .103
                  <sub>띥</sub>,
                                                                                                                                                        /note= "complementary determining region claimed under
claim 5"
                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                            78.3%;
77.8%;
                                                      AG
                  Zehetmeier C,
Knauer R, J
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Pred. No.
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                  C, Lain B,
Jensen KH;
                                                                                                                                                                                                                                                                                                                                                                                                                      DB 9;
                           Torella C,
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                           Niewoehner J;
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CC antibody correlates with the presence of B. anthracis in a subject. In CC all cases, the antibody (full-length or functional fragment) may comprise CC a heavy chain variable region selected from a group of sequences ADV86810 CC -ADV86827, a light chain kappa region selected from a group or sequences CC ADV86828-ADV86835 and a light chain lambda region selected from a group or sequences CC of sequences ADV86837. Diagnostic kits are provided. A claimed CC compositions of the present invention are also useful for producing anticompositions of the present invention are also useful for producing anticompositions or anti-infectives to infective agents such as anthrax, botulinum, CC smallpox, Venezuelan equine encephalomyelitis and West Nile virus. The CC present sequence is that of the heavy chain variable region of a human CC fab (designated 9 K 2e G pro) with positive reactivity to anthrax cCC proteins PA63 and PA83. Phage libraries were developed from mRNA isolated CC against anthrax. The libraries were panned against PA83 and PA63, and CC sequence analysis was performed on positive responders. Neutralization of anthrax toxin activity by purified Fabs was demonstrated.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            affinity for the molecule, where the presence of elevated levels of the antibody correlates with the presence of a disease associated with B. anthracis. Alternatively, the method involves assaying for the presence of an antibody to a cell receptor, PA63, PA63 heptamer, PA63, edema factor or lethal factor with a secondary antibody having binding affinity for the antibody, where the presence of elevated levels of the secondary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             edema factor or lethal factor with an antibody that has binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 134;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC polypeptide, antibody, scFv, annibody fragment or bioconjugate, that CC modulates neuropilin-1 (NP-1) function or inhibits NP-1 dependent CC angiogenesis of endothelial cells and/or invasion of tumour cells, whereby the NPB binds to NP-1 and modulates NP-1 function. Further CC disclosed is an ex vivo method of determining the dependency of the CC invasiveness of a naturally occurring invasive cancer cell on the CC invasiveness of NP-1. The NPB of the invention is an inhibitor of CC metastasis of NP-1 mediated invasion and/or adhesion and an inhibitor of tumour-associated NP-1 dependent angiogenesis. The NPB of the invention CC is useful for detecting NP-1 expression, modulation of NP-1 function, CC particularly modulation or inhibition of NP-dependent invasion or CC adhesion of cells, preferably tumour cells. It is useful in the CC manufacture of medicament for the treatment or prevention of NP-dependent correlated with a tumour. It is also useful for treatment or prevention CC of cancer and/or metastasis of tumour cells. The current sequence represents a single chain antibody neuropilin binder (NPB) polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             inflammation; inflammatory bowel disease; Crohns disease; ulcerative colitis; diverticular disease; gastritis; liver disease; primary biliary cirrhosis; primary sclerosing cholangitis; insulin dependent diabetes; graft versus host disease; antiinflammatory; gastrointestinal-gen.; antiulcer; hepatotropic; antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a neuropilin binder (NPB) (I) which is polypeptide, antibody, serv, antibody fragment or bicconjugate,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 3; SEQ ID NO 29; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; ADR28116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AEB45891 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 244 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human monoclonal anti-MAdCAM antibody #27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-OCT-2005 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AEB45891;
                          Pullen N, Molloy E,
                                                                        (PFIZ ) PFIZER INC.
(ABGE-) ABGENIX INC.
(PFIZ ) PFIZER LTD.
                                                                                                                                                                                                                                 07-JAN-2005; 2005WO-US000370
                                                                                                                                                                                                                                                                                                                                       WO2005067620-A2
                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Monoclonal antibody; mucosal addressin cell adhesion molecule; MAdCAM;
                                                                                                                                                                           09-JAN-2004; 2004US-0535490P
                                                                                                                                                                                                                                                                                                                                                                                                                                  immunosuppressive;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein; 468
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77.8%;
                          Kellermann
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Pred. No. 7.7;
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                             Haak-Frendscho
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Gaps

2005-554958/56

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AEB45853
ID AEB4
XX
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DT 06-(
XX
Humm
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cc nucleic acid molecule comprising a nucleotide sequence encoding the heavy contain or its antigen-binding portion or the light chain or its antigen-binding portion or the light chain or its antigenchinding portion of an antibody described above, a vector comprising the capression control sequence operably linked to the nucleic acid molecule, where the vector or the nucleic acid molecule, capression control sequence operably linked to the nucleic acid molecule, capression control sequence operably linked to the nucleic acid molecule, cape a host cell comprising the vector or the nucleic acid molecule, cape and the specifically binds madcam, a method of isolating an antibody, and that specifically binds antibody or its antigen-binding portion that specifically binds to MAdCAM, a method of the santigen-binding portion that specifically binds to MAdCAM and inhibits binding to call supportion that specifically binds to MAdCAM and inhibits binding to calpha4beta7, a method of inhibiting alpha4beta7 binding to cells cappessing human MAdCAM, a method of inhibiting MAdCAM-mediated leukocyte endothelial cell adhesion, migration and infiltration into tissues, a method of inhibiting alpha4beta7/MAdCAM-dependent cellular adhesion, and inhibiting alpha4beta7/MAdCAM-dependent cellular adhesion,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inhibiting the MACCAM-mediated recruitment of lymphocytes to gastrointestinal lymphoid tissue, a method of diagnosing a disorder characterized by circulating soluble human MACCAM and detecting inflammation in a subject. The antibody, composition and methods are useful for diagnosing and treating inflammatory disease, e.g. inflammatory bowel disease, Crohn's disease, ulcerative colitis, diverticular disease, gastritis, liver disease, primary boliary cirrhosis, primary sclerosing cholangitis, insulin dependent diabetes agraft versus host disease. This sequence represents a human monoclonal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                binding portion that specifically binds to mucosal addressin cell addression molecule (MAdCAM). The invention also relates to a hybridoma cell line that produces the human monoclonal antibody, a pharmaceutical composition comprising an amount of the monoclonal antibody or its antigen-binding portion and a pharmaceutical carrier, a method of treating inflammatory disease in a subject, an isolated cell line that produces the monoclonal antibody or its antigen-binding portion or the produces the monoclonal antibody or its antigen-binding portion or the
                     inflammation; inflammatory bowel disease; Crohns disease; ulcerative colitis; diverticular disease; gastritis; liver disease; primary sclerosing cholangitis; primary sclerosing cholangitis; insulin dependent diabetes; graft versus host disease; antiinflamma gastrointestinal-gen.; antiulcer; hepatotropic; antidiabetic;
                                                                                                                                                                                                                Human monoclonal anti-MAdCAM antibody #9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antibody to Mucosal Adressin Cell Adhesion Molecule, useful for diagnosing and treating an inflammatory disease, e.g. inflammatory boy disease, ulcerative colitis, gastritis, insulin-dependent diabetes or graft versus host disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                             AEB45853 standard;
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                                                                                                                                                                 Monoclonal
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TYYYYGMDV 133
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                                                                                                                                                            antibody; mucosal addressin cell adhesion molecule; MAdCAM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antibody of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                          protein; 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78.3%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ø
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 47; DB Pred. No. 15; 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ٥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                 antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       bowe1
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                                                                                                                                                                       CC produces the monoclonal antibody or its antigen-binding portion or the CC heavy chain or light chain of the antibody or of its portion, an isolated culcical acid molecule comprising a nucleotide sequence encoding the heavy chain or its antigen-binding portion or the light chain or its antigen-binding portion or the light chain or its antigency chain or its antigen-binding portion of an antibody described above, a vector comprising the nucleic acid molecule, where the vector optionally comprises an occur expression control sequence operably linked to the nucleic acid molecule, a cc method of producing a human monoclonal antibody or its antigen-binding corriton that specifically binds MAGCAM, a method of isolating an antibody or its antigen-binding portion that specifically binds to MAGCAM, a method of isolating an antibody or its antigen-binding to compressing human MAGCAM, a method of a human antibody or its antigen-binding to capressing human MAGCAM, a method of inhibiting MAGCAM mediated leukocyte empressing human MAGCAM, a method of inhibiting MAGCAM mediated leukocyte condothelial cell adhesion, migration and infiltration into tissues, a method of inhibiting alpha4beta7/MAGCAM-dependent cellular adhesion, inflammation into disgnosing a disorder characterized by circulating soluble human MAGCAM and detecting characterized by circulating soluble human MAGCAM and methods are criminally for disease, egg.

CC direction for disgnosing and treating inflammatory disease, e.g. criminally capacities, liver disease, primary billars and abbetes and characterists. Invert disease, primary billars and abbetes and control disease, primary billars and control disease, e.g.
                                                                                                      Query Match
Best Local
                                                                                  Matches
                                                                                                                                                                     cirrhosis, primary sclerosing cholangitis, insulin dependent diab graft versus host disease. This sequence represents a human monoc anti-MACCAM antibody of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antibody to Mucosal Adressin Cell Adhesion Molecule, useful for diagnosing and treating an inflammatory disease, e.g. inflammatory boundisease, ulcerative colitis, gastritis, insulin-dependent diabetes or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a human monoclonal antibody or its a binding portion that specifically binds to mucosal addressin adhesion molecule (MAdCAM). The invention also relates to a h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cell line that produces the human monoclonal antibody, a pharmaceutical composition comprising an amount of the monoclonal antibody or its antigen-binding portion and a pharmaceutical carrier, a method of treating inflammatory disease in a subject, an isolated cell line that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 8; SEQ ID NO 18; 167pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    graft versus host disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pullen N, Molloy E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-JAN-2004; 2004US-0535490P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-JAN-2005;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                      Local Similarity
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123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ) PFIZER INC.
) ABGENIX INC.
) PFIZER LTD.
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                                            TYYYFGLDV
                                                                                  Conservative
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Pred. No.
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15;
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                                                                                                                             Length 469;
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                                                                                                                                                                                                                                          monoclonal
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                                                                                                                                                                                                                                                            diabetes and
                                                                                  Gaps
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ATYYYFGLDV 11
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The invention describes an isolated antibody (I) that specifically binds CC clone where (I) binds to and neutralises botulinum neurotoxin type A CC (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody (I) that specifically binds to an epitope CC specifically bound by an antibody expressed by a clone chosen from clone CC 3-8, 3-10 and ING1, where (I) binds to an epitope that is comprising BoNT/A neutralising epitope having an epitope that is specifically bound by an antibody expressed by clones as mentioned in (I) producing (I); and a composition (III) comprising several anti-computation (II) producing (I); and a composition (III) comprising several anti-comprising several anti-comprising (I); and a composition (III) comprising several anti-comprising (I); and a kit comprising a botulinum neurotoxin the single antibodies in surplus. The following are disclosed: a pharmaceutical composition (CC comprising (I); and a kit comprising a botulinum neurotoxin which (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin which (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin which (I) is useful for neutralisation than the single antibodies in surplus. (I) is useful for diagnosing the botulism or treating pathologies associated with botulinum neurotoxin than the single antibodies in surplus. (I) is useful for diagnosing the botulism or the single antibodies above greater toxin neutralisation than the combination of antibodies absociated with botulinum neurotoxin than the single antibodies detection or diagnosis of botulism. This is the amino acid sequence of mouse heavy chain variable region complementarity determining region 3 (CDR3) from anti-botulinum neurotoxin antibodies.
      Matches
                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              with botulinum neurotoxin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antibacterial; antibody; botulinum neurotoxin type A; BONT/A; BONT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-DEC-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-AUG-1998; 98US-00144886.
01-AUG-2002; 2002US-0400721P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-AUG-2003; 2003US-00632706.
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                                                                                     Sequence 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3; SEQ ID NO 114; 110pp; English.
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                         Local
                           Similarity
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      Conservative
                         76.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 poisoning.
                         Score 46; DB Pred. No. 0.5;
      Mismatches
                                            8
      1;
                                          Length 13;
      Indels
      0
      Gaps
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RESULT 12
ADW04816
ADW04816
ADW04816
AC ADW04
AX CYtos
FAPP US200
AX Unide

ADZ41994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
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Matches 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to novel proteins (I) that bind to pregnancy-associated plasma protein A (PAPP-A ADW04676). (I) comprises a first and second immunoglobulin variable domain sequence which binds to PAPP-A. Also claimed are proteins (II) which comprise light chain (LC) and heavy chain immunoglobulin variable domain sequences which binds to PAPP-A. The proteins are useful for diagnosing, preventing or treating proliferative diseases such as glloblastoma, osteosarcoma and overgrowth of vascular smooth muscle cells following e.g., balloon angioplasty (which may cause restenosis). The proteins are especially useful for useful for treating diseases involving IGF regulated growth. The present sequence is one such immunoglobulin variable domain sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New pregnancy-associated plasma protein-A (PAPP-A) binding proteins comprising immunoglobulin variable domain sequences, useful for diagnosing, preventing or treating diseases such as cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytostatic; Vasotropic; proliferative disorder;
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Antibody; antibody engineering; antibody therapy; light chain variable region;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-FEB-2003; 2003US-0448515P
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                                                                                                                            Ig H chain
                                                                                                                                                                                                                            30-JUN-2005
                                                                                                                                                                                                                                                                                                                                                                                                      ADZ41994 standard; peptide; 126 AA
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                                                                                                                                                                                                                                                                                                               ADZ41994;
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                                                                                                                                         variable
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                                                                                                                                                                                                                       (first entry)
                                                                                                                                     region,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      76.7%;
63.6%;
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                                                                                                                                         B-CLL set II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 46; DB 9; pred. No. 0.83; 2; Mismatches
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                                                                                                                                                                              CC and heavy chain antibody genes, useful for treating B cell chronic CD5+B lymphocytes. These cells express low levels of slowly proliferating CCD5+B lymphocytes. These cells express low levels of surface membrane Ig Cthat serves as the receptor for antigen (BCR). Analysis of V region gene CC cassettes usage has shown that distribution of variable region gene CC cassettes usage has shown that distribution of variable region gene CC cassettes usage has shown that distribution of variable region gene CC that the structure of the antibody molecule, and antigen specificity. CP play a role in the leukemic transformation of particular B cells. The CC patients with aggressive disease share the same classes of VH. D. JH. VI. CC and JI. antibody genes, forming sets of patients with highly homologous B CC cell receptors. Alternatively, the patients have a disorder selected from CH Hodgkin's disease, non-Hodgkin's lymphoma, Burkitt's lymphoma, myeloma or Systemic lupus erythematosus, myasthenia gravis, Grave's disease, type I CC diabetes mellitus, autoimmune peripheral neuropathy, and autoimmune homologous B CC cll receptors. Alternatively, the patients have a disorder selected from CH Hodgkin's disease, type I CC diabetes mellitus, autoimmune peripheral neuropathy, and autoimmune CC cll sylfs/VIkappa01/2/JIkappa1/kappa2 (Set II); VH3-3/D5-CC 13/JH5/VIkappa01/2/JIkappa1/kappa2 (Set II); VH3-69/D3-CC 13/JH6/VIlambda1 (Set VI); VH1-69/D3-CC 13/JH6/VILambda1/Silambda1 (Set VI); VH1-69/D3-CC 19/JH4/VIkappa01/2/JIkappa1 (Set VI); VH1-69/D3-CC 19/JH4/VIkappa01/2/JIkappa1 (Set VII). Treating a patient having B-CLL with the above genes comprises administering an agent that binds to the CC antigen-binding region of an antibody encoded by the antibody genes. The CC antigen-binding region of an antibody encoded by the antibody genes. The CC antigen-binding and antigen, or an appamer. The CC genes and antigen of an antibody genes antibody genes. The comprise administering and set of the comprise and comprise administering and compri
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated and purified preparation of light chain and heavy chain antibody genes, useful for diagnosing, preventing or treating B cell chronic lymphocytic leukemia, or in screening for agents that may treat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-OCT-2004; 2004WO-US033176
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                                                                                                                                                                              Sequence 126 AA;
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72.7%;
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    Mismatches

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                                                  Cytostatic; Vasotropic; heavy chain variable domain; proliferative disorder; restenosis; glioblastoma; os
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 140 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New pregnancy-associated plasma protein-A (PAPP-A) binding proteins comprising immunoglobulin variable domain sequences, useful for diagnosing, preventing or treating diseases such as cancer.
                                                                                                                                                                                                              Sequence 16 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example; SEQ ID NO 277; 168pp; English.
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                                                                   1 LATYYYFGLDV 11
:| |||:|:|
6 VAGYYYYGMDV 16
                                                                                                                                        h 75.0%;
Similarity 63.6%;
7; Conservative
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Scoring table: Searched:	Title: Perfect score: Sequence:	Run on:	OM protein - pro
BLOSUM62	US-10-632-706-127	December 4, 2005, 04:31:45 ; Search time 15.5833 Seconds (without alignments) 67.918 Million cell updates/sec	GenCore version 5.1.6
Gapop 10.0 , Gapext 0.5	60		Copyright (c) 1993 - 2005 Compugen Ltd.
283416 segs, 96216763 residues	1 LATYYYFGLDV 11		OM protein - protein search, using sw model

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%

Total number of hits satisfying chosen parameters:

283416

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 80:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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1	PT.0094	PH1359	A83788	S44107	E83729	PH1325	S14683	I37780	A49047	C33548	PH0954	S48797	S24686	PH1650	PH0961	PH1666	S26793	PH1355	PH1371	PT0258	PH1364	843960	PH1304	E70380	S05271	D70189	PH1328	PH1361	PH1307	IB		
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36	36	36.5	36.5	37	37	37	37	37	37	37	37	37	38	38	38
60.0	60.0	60.8	60.8	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	63.3	63.3	63.3
145	18	316	120	685	571	571	527	448	447	276	126	14	979	473	287
N	N	N	N	N	N	N	N	N	N	N	بر	N	N	N	N
H97707	PH1368	C75205	E49590	T22223	S24482	A42138	C70130	T12006	T09809	S16892	HHUOU	PH1601	A39792	H86240	T27056
30S ribosomal prot	Ig heavy chain DJ	hypothetical prote	Ig heavy chain V r	sel-1 protein - Ca	conditioned medium	conditioned medium	glycerol-3-phospha	NADH2 dehydrogenas	NADH2 dehydrogenas	probable transposa	Ig heavy chain V-I	Ig H chain V-D-J r	transcription acti	hypothetical prote	hypothetical prote

# ALIGNMENTS

g V	Query Match Best Local Matches	A; Molecule type: DNA A; Molecule type: DNA A; Residues: 1-23 < WAS> A; Cross-references: UN C; Superfamily: immunog C; Keywords: heterotetr	R; Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, J. Exp. Med. 176, 1577-1581, 1992 A; Title: Predominance of fetal type DJH joining in young children with B A; Reference number: PH1302; MUID:93094761; PMID:1460419 A; Reference number:	RESULT 2 PH1361 Ig heavy chain DJ r C;Species: Homo sap C;Date: 30-Sep-1993 C;Accession: PH1361	Qy Db	Query Match Best Local   Matches	A; Noteconduct Fine: DNA A; Molecule type: DNA A; Residues: 1-19 <was> A; Cross-references: UNIPARC: UPI0000176935 A; Cross-refering: immunoglobulin V region; im C; Superfamily: immunoglobulin immunoglobulin</was>	RESULT 1 PH1307 PH307 Ig heavy chain DJ region (clone C96-119) - human (fragment) C;Species: Homo mapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_chance. C;Accession: PH1307 R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, J. Exp. Med. 176, 1577-1581, 1992 A;Title: Predominance of fetal type DJH joining in young chi A;Reference number: PH1302; MUID: 33094761; PMID: 1460419
1 LATYYYFGLDV 11      : :   8 LFPYYYYGMDV 18	Sim 7;	A;Molecule type: DNA A;Molecule type: DNA A;Residues: 1-23 <was> A;Cross-references: UNIPARC:UPI0000176948 C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin</was>	R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, J. Exp. Med. 176, 1577-1581, 1992 A;Title: Predominance of fetal type DJH joining in young children with B A;Reference number: PH1302; MUID:93094761; PMID:1460419	RESULT 2  PH1361  Ig heavy chain DJ region (clone C178-122B) - human (fragment)  C;Species: Homo sapiens (man)  C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999  C;Accession: PH1361	3 TYYYFGLDV 11 :   : :   6 SYYYYGMDV 14	Sim.	, ACCEPTOR. FILLOW, ACCEPTOR TO THE PROPERTY OF THE PROPERTY O	SULT 1 1307 heavy chain DJ region (clone C96-119) - human (fragment) Species: Homo sapiens (man) Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_ch Accession: PH1307 Accesserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane Exp. Med. 176, 1577-1581, 1992 Title: Predominance of fetal type DJH joining in young ch Title: Predominance of fetal type DJH joining in young ch
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11	7# 6#;	RC:UPIO( ulin V ; r; immur	N.; Ito, B1, 1992 fetal t) 2; MUID:	(clone (man)	4 4	78;	RC:UPIOC ulin V x immur	(clone C man) ence_rev ! Ito, 11 1992 fetal ty
	Score 43; Pred. No. 2; Mismat	)001769 cegion; noglobu	Y.; R pe DJH 930947	7178-12 vision		Score 43; Pred. No. 3; Mismat	001769: region; roglobu	96-119 rision : Y.; R. Pe DJH
	£ _	48 immunos lin	eichard, joining 51; PMII	2B) - hı 30-Sep-:		ore 43; DB 2 ed. No. 0.23; Mismatches	immunos immunos	- huma 30-Sep-1 3ichard, joining
	DB 2; ).28; les	globu	, B. g in D:146	ıman 1993		3;	globu	an (f 1993 , B.A , B.A
	Len 2;	ılin	youn 50419	(fra		Len 0;	ılin	#tex #tex youn
	Length 23;	homolo	hane,	gment)		Length 19;	homolo	<pre>fragment) #text_change 07-May-1999 A.; Shane, S.; Rovera, G. young children with B pr 60419</pre>
		Ϋ́	S.; R dren	ge 07			Ϋ́E	nge 07-May-1 S.; Rovera, ldren with B
	o, ດ		with	-мау		0;		-May lover
	Gaps			-1999		Gaps		-1999 a, G.
	0,		G. precursor lymph			40		<pre>1 (fragment) 993 #text_change 07-May-1999 B.A.; Shane, S.; Rovera, G. in young children with B precursor lymph:1460419</pre>
			1ymph					1 ymph

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Ig heavy chain precursor - human (fragment)
C;Species: Homo sapiens (man)
C;Datte: 30-Jun-1992 #sequence revision 30-Jun-1992 #text_change 31-Dec-2004
C;Accession: S05271; S04602
R;Kishimoto, T.
R;Kishimoto, T.
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C.Species: Homo sapiens (man)
C.Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C.Accession: PH1328
R.Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A.Title: Predominance of fetal type DJH joining in young children with B precursor lymph A.Reference number: PH1302; MUID:93094761; PMID:1460419
A.Accession: PH1328
                A;Molecule type: mRNA
A;Residues: 1-160 <KISI>
A;Cross-references: UNIPROT:(968B9; UNIPARC:UPI0000176B50;
A;Cross-references: UNIPROT:(968B9; UNIPARC:UPI0000176B50;
A;Crishimoto, T.; Okajima, H.; Okumoto, T.; Taniguchi, M.
Nucleic Acids Res. 17, 4385, 1989
A;Title: Nucleotide sequences of the cDNAs encoding the V-r
A;Reference number: S04601; MUID:89296497; PMID:2500644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nature 390, 580-586, 1997

A;Authors: Smith, H.O.; Venter, J.C.

A;Title: Genomic sequence of a Lyme disease spirochaete,

A;Reference number: A70100; MUID:98065943; PMID:9403685

A;Accession: D70189
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C;Superfamily: immunoglobulin V region; im
C;Keywords: heterotetramer; immunoglobulin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          conserved hypothetical integral membrane protein BB0717 - Lyme disease spirochete C;Species: Borrelia burgdorferi (Lyme disease spirochete) C;Species: 13-Feb-1998 #sequence_revision 13-Feb-1998 #text_change 09-Jul-2004
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A; Accession: S05271
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A; Residues: 1-160 < KLE>
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A; Residues: 1-29 < WAS>
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Best Local S
Matches 6
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SYYYYGMDV 24
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Pred. No. 0.36;
3; Mismatches
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Pred. No.
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                          encoding the V-regions PMID: 2500644
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A;Cross-references: UNIPARC:UPI0000176934
C;Superfamily: immunoglobulin V region; i
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A;Accession: PH1304
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C;Superfamily: Aquifex aeolicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nature 392, 353-358, 1998
A;Title: The complete genome of the hyperthermophilic bacterium A;Reference number: A70300; MUID:98196666; PMID:9537320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Na+/H+-exchanging protein - Aquifex N;Alternate names: Na+/H+ antiporter C;Species: Aquifex aeclicus
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F;34-117/Domain: immunoglobulin homology <IMM>
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C;Superfamily: immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
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                                                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-19 < WAS>
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J. Exp. Med. 176, 1577-1581, 1992
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A; Residues: 1-408 < AQF>
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C;Accession: E70380
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                                    Query Match
Best Local S
Matches 6
                                                                                                                                                                                                                                                                                             ;Species: Homo sapiens (man)
;Date: 30-Sep-1993 #sequence_revision
;Accession: PH1304
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                                                                                                          heterotetramer; immunoglobulin
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Pred. No.
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Pred. No. 0.35;
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Pred. No. 2;
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k;wagner, S.D.; Williams, G.T.; Larson, T.; Neuberger, M.S.; Kitamura, D.; Rajewsky,
Nucleic Acids Res. 22, 1399-1393, 1994
A;Title: Antibodies generated from human immunoglobulin miniloci in transgenic mice.
A;Reference number: S43956; MUID:94248036; PMID:8190629
A;Moleculo 153960
A;Moleculo 153960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G. J. Exp. Med. 176, 1577-1581, 1992
A,Title: Predominance of fetal type DJH joining in young children with B precursor lymph A;Reference number: PH1302; MUID:93094761; PMID:1460419
A,Accession: PH1364
                                      R;Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.
J. Exp. Med. 173, 395-407, 1991
A;Title: Preferential utilization of specific immunoglobulin heavy chain diversity and A;Reference number: PT0222; MUID:91108337; PMID:1899102
A;Accession: PT0258
A;Molecule type: DNA
A;Residues: 1-24 <YAM's
A;Residues: 1-24 <YAM's
A;Cross-references: UNIPARC:UP10000176940
A;Experimental source: B lymphocyte
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
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C;Species: Homo sapiens (man)
C;Date: 20-Oct-1994 #sequence_revision 26-Jul-1996 #text_change 17-Mar-1999
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C;Superfamily: immunoglobulin V region; im
C;Keywords: heterotetramer; immunoglobulin
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A; Residues: 1-23 < WAS>
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A; Residues: 1-19 < WAG>
                                                                                                                                                                                                                                                                              Ig heavy chain CDR3 region (clone 2-118B) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 30-May-1997
C;Accession: PT0258
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Pred. No.
  Score 42;
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Pred. No. 0.42;
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R;Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G. J. Exp. Med. 176, 1577-1581, 1992
A;Title: Predominance of fetal type DJH joining in young children with B precursor lympl. A;Reference number: PH1302; MUID:93094761; PMID:1460419
A;Accession: PH1355
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A;Residues: 1-27 <%AS>
A;Cross-references: UNIPARC:UPI000017694B
C;Superfamily: immunoglobulin V region; imm
C;Keywords: heterotetramer; immunoglobulin
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A;Title: Predominance of fetal type DJH joining in young children with B precursor lymph A;Reference number: PH1302; MUID:93094761; PMID:1460419
              R;Mortari, F.; Newton, J.A.; Wang, J.Y.; Schroeder Jr., H.W. Eur. J. Immunol. 22, 241-245, 1992
A;Title: The human cord blood antibody repertoire. Frequent usage A;Reference number: S26786; MUID:92111632; PMID:1730251
A;Accession: S26793
A;Status: preliminary
                                                                                                                                      Ig heavy chain V region - human
C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change
C;Accession: S26793
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C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ig heavy chain DJ region (clone C111-145) - human C;Species: Homo sapiens (man) C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993
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A;Residues: 1-27 <WAS>
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A;Molecule type: mRNA
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Matches
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Best Local Similarity
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es 6; Conserv
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12 YYYYGMDV 19
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Pred. No.
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2; Mismatches
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Pred. No. 0
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Ig heavy chain V region (G6+ T-L33) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0961
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Bvidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0961
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C;Species: Homo sapiens (man)
C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 16-Aug-1996
C;Accession: PH1666
R;Hillson, J.L.; Karr, N.S.; Oppliger, I.R.; Mannik, M.; Sasso, E.H.
J. Exp. Med. 178, 331-336, 1993
A;Title: The structural basis of germline-encoded VH3 immunoglobulin binding to staphyld A;Reference number: PH1642; MUID:93301610; PMID:8315388
A;Accession: PH1666
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A;Cross-references: UNIPARC:UPI0000115FCA; EMBL:X61019; NID:g32787; PIDN:CAA43353.1; PICC;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin
                                                 Query Match
Best Local Similarity
Matches 6; Conserve
                                                                                                                                                                                                                                 A;Cross-references: UNIPARC:UPI0000176CE5
(;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
E;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMN>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
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A;Experimental Bource: B cell
A;Experimental bource: B cell
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;7-90/Domain: immunoglobulin homology <IMM>
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A; Residues: 1-118 <HIL>
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A; Residues: 1-119 <MAR>
                                                                                                                                                                                       ;51-67/Region: complementarity-determining 2;68-98/Region: framework 3
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Best Local Similarity 75.0%;
Matches 6; Conservative :
                                                                                                                                                                                                                                                                                                                                                                                                                                         Status: nucleic acid sequence not shown
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Best Local
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Local Similarity 75.0%;
hes 6; Conservative ;
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4 YYYFGLDV 11
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                                                                        Conservative
                                                                                         70.0%;
75.0%;
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Pred. No. 2.2;
2; Mismatches
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Pred. No. 1.4;
                                                                                           Score 42; DB 2; Length 119; Pred. No. 2.2;
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2.2;
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### SUMMARIES

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					caenorhabdi		rhodopseudo	legionella				homo sapien	candidatus	mannheimia	drosophila	lactobacill	homo sapien		

#### Ś Query Match Best Local S Matches 7 Gardner M., Bishop R., Shah T., de Villiers B., Carlton J.M., Hall N., Ren Q., Paulsen I.T., Pain A., Berriman M., Wilson R.J.M., Sato S., Ralph S.A., Mann D.J., Xiong Z., Shallom S.J., Weldman J.J., Jiang L., Lynn J., Weaver B., Shoaibi A., Wasawo D., Crabtree J., Wortman J.R., Lynn J., Weaver B., Shoaibi A., Wasawo D., Crabtree J., Wortman J.R., Haas B., Angiuoli S., Creasy T.H., Lu C., Suh B., Silva J.C., Utterback T., Feldblyum T., Pertea M., Allen J., Taracha E.L., Salzberg S.L., White O., Fitzhugh H.A., Morzaria S., Venter J.C., Fraser C.M., Nene V., Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases. -I- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is Gardner M.J., Bishop R., Shah T., de Villiers E.P., Carlton J.M., Hall N., Ren Q., Paulsen I.T., Pain A., Berriman M., Wilson R.J.M., Sato S., Ralph S.A., Mann D.J., Xiong Z., Shallom S.J., Weidman J., Jiang L., Lynn J., Weaver B., Shoaibi A., Wasawo D., Crabtree J., Wortman J.R., Haas B., Angiuoli S.V., Creasy T.H., Lu C., Suh B., Silva J.C., Utterback T.R., Feldhlyum T.V., Pertea M., Allen J., Taracha E.L.N., Salzberg S.L., White O.R., Fitzhugh H.A., Morzaria S., Venter J.C., Fraser C.M., Nene V.; "Genome sequence of Theileria parva, a bovine pathogen that transforms "Genome sequence of Theileria parva, a bovine pathogen that Bukaryota; Alveolata; Apicomplexa; Piroplasmida; Theileriidae; Theileria. EMBL; AAGK01000001; EAN33265.1; -; Genomic_DNA. Hypothetical protein. SEQUENCE 1348 AA; 155635 MW; 474C3A40C23E8C lymphocytes."; Science 309:134-137(2005). STRAIN=Muguga; Hypothetical protein. ORFNames=TP01_0021; 13-SEP-2005 (Tramburel. STRAIN=Muguga; NUCLEOTIDE SEQUENCE. NUCLEOTIDE SEQUENCE. NCBI_TaxID=5875; Theileria parva. preliminary data. 3 TYYYFGLD 10 7; Conserv Conservative 73.3%; 87.5%; 155635 MW; 474C3A40C23E8C5F CRC64; 31, Last annotation update) ;; Score 44; DB Pred. No. 60; 1; Mismatches 2 0 Length 1348; Indels 0 Gaps 0

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01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
01-JUN-2003 (TrEMBLrel. 124, Last annotation update)
Conserved hypothetical integral membrane protein.
OrderedLocusNames=BB0717;
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051659;
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EMBL; AE001171; AAC67057.1;
PIR; D70189; D70189.
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Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae;
Borrelia burgdorferi group.
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MEDLINE=98065943; PubMed=9403685; DOI=10.1038/37551;
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ID 067072 AQUAE F
AC 067072;
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Q660F6_I
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60.0%;
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54.5%;
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Nature 392:353-358(1998).

EMBL; ABC00714; AAC07034.1; -; Genomic_DNA.

R PIR; E70380; F70380.

R GO; GO:0016021; C:integral to membrane; IEA.

R GO; GO:0015299; F:solute:hydrogen antiporter activity; IE

R GO; GO:0006885; P:regulation of pH; IEA.

R GO; GO:0006810; P:transport; IEA.

R GO; GO:0006810; P:transport; IEA.

R InterPro; IPR006153; Na H porter.

R Pfam; PF00999; Na_H Exchanger; 1.

R Complete protecme; Transmembrane; Transport.

Complete protecme; Tansmembrane; Transport.
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Complete proteome; Hypothetical protein.

Complete proteome; Hypothetical protein.
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25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Conserved hypothetical integral membrane protein.
OrderedLocusNames=BG0739;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIINE=98196666; PubMed=9537320; DOI=10.1038/32831; Deckert G., Warren P.V., Gaasterland T., Young W.G., Lenox A.L., Deckert G., Warren P.V., Snead M.A., Keller M., Aujay M., Huber R., Graham D.E., Overbeek R., Snead M.A., Keller M., Aujay M., Huber R., Feldman R.A., Short J.M., Olsen G.J., Swanson R.V.; "The complete genome of the hyperthermophilic bacterium Aquifex and the state of the hyperthermophilic bacterium and the s
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Bacteria; Aquificae; Aquificales; Aquificaceae; Aquifex.
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Borrelia burgdorferi group.
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Pred. No. 11;
3; Mismatches
Score 43; DB Pred. No. 28; 4; Mismatches
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RESULT 7
Q7W926_BORPA PRELIMINARY;
ID W926_BORPA PRELIMINARY;
AC Q7W926;
DT 01-OCT-2003 (TrEMBLrel. 25,
DT 01-MAR-2004 (TrEMBLrel. 26,
DT 01-MAR-2004 (TrEMBLrel. 26,
DT 01-MAR-2004 (TrEMBLrel. 26,
DE PUTATIVE PERIPHERS SOLUTE
GN Name-smow, OrderediccusName
OS Bordetella parapertussis
OC Bacteria; Proteobacteria; B
OC Alcaligenacea; Bordetella.
OX NCBI_TaxID=519;
RN (1]
RP NUCLEOTIDE SEQUENCE.
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Q7VY71 BORPE
ID Q7VY71 BAC
Q7VY71 BAC
Q7VY71 BAC
Q7VY71 BAC
Q7VY71 DT 01-0CT-2
DT
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RX MEDLINE-22827954; PubMed=12910271; DOI=10.1038/ng1227;

RA PARTAIS D.E. Holden M.T.G. Churcher C.M., Bentley S.D., Mungall K.L.,

RA Harris D.E. Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Squares R., Squares S., Stevens K.,

RA Feltwell T., Simmonds M., Skelton J., Squares R., Squares S., Stevens K.,

RA Babinowitsch E., Rutter S., Sanders M., Squares S., Stevens K.,

RA Abbinowitsch E., Rutter S., Sanders M., Squares S., Stevens K.,

RA Abbinowitsch E., Rutter S., Sanders M., Squares S., Stevens K.,

RA Abbinowitsch E., Rutter S., Sanders M., Squares S., Stevens K.,

RA Abbinowitsch E., Rutter S., Sanders M., Squares S., Stevens K.,

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RA Bary S., Sanders M., Squares R., Squares S., Stevens K.,

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RA Bary S., Sanders M., Sanders M., Squares S., Stevens K.,

RA Bary S., Sanders M., Sanders M., Squares S., Stevens K.,

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RA Bary S., Sanders M., Sanders M., Sanders M., Sanders M., Sanders M., Sande
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Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
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Name=smcM; OrderedLocusNames=BP1487;
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01-OCT-2003 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-OCT-2003 (TrEMBLrel. 25, Created)
01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Putative periplasmic solute-binding protein.
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                                                                                                                                                                                                                                                                                                                                  Name=smoM; OrderedLocusNames=BPP1948;
Bordetella parapertussis.
Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
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STRAIN=12822 / ATCC BAA-587;
MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;
Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      116
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                                                                                                                                                                                                                                                                                       Bordetella.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    70.0%;
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25,
26,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 42;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 38;
l; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
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RESULT 8
Q7WKH1_BORBR
ID Q7WKH1_BORBR E
AC Q7WKH1;
   A CONTRACTOR OF THE CONTRACTOR
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RX MEDLINE-22827954; PubMed=12910271; DOI=10.1038/ng1227;

RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,

RA Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C.,

RA Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,

RA Rabbinowitsch E., Rutter S., Sanders M., Squares S., Stevens K.,

Unwin I., Whitehead S., Barrell B.G., Maskell D.J.;

"Comparative analysis of the genome sequences of Bordetella pertussis,

RT Bordetella parapertussis and Bordetella bronchiseptica.";

RMEL, Basca V. (2003).

RE EMBL; Bx640443; CAE32632.1; -, Genomic DNA.

RO, GO:0030288; C:periplasmic space (Gensu Gram-negative Bact. . .; IEA.

RO, GO:0006810; P:transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sharp S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K., Unwin L., Whitehead S., Barrell B.G., Maskell D.J.; "Comparative analysis of the genome sequences of Bordetella pertussis, Bordetella parapertussis and Bordetella bronchiseptica."; Nat. Genet. 35:32-40(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Harris D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L. Cerdeno-Tarraga A.-M., Temple L., James K.D., Harris B., Quail M.A., Achtman M., Atkin R., Baker S., Basham D., Bason N., Cherevach I., Chillingworth T., Collins M., Cronin A., Davis P., Doggett J., Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K., Leather S., Moule S., Norberczak H., O'Neil S., Ormond D., Price C., Rabbinowitsch E., Rutter S., Sanders M., Sanders D., Seeger K., Sharp C. Cimmond M. Chillon M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-OCT-2003 (TrEMBLrel. 25, Created)
01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
01-OCT-2003 (TrEMBLrel. 26, Last annotation update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Putative periplasmic solute-binding protein.
Name=smoM; OrderedLocusNames=BB2136;
Bordetella bronchiseptica (Alcaligenes bronchisepticus).
Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; BX640428; CAE37248.1; -; Genomic_DNA.
GO; GO:0030288; C:periplasmic space (sensu
GO; GO:0006810; P:transport; IEA.
InterPro; IPR006311; Tat.
InterPro; IPR004682; TRAP transptDctP.
Pfam; PF03480; SBP_bac_7; 1.
TIGRRAMS; TIGR01409; TAT_signal_seq; 1.
   Complete
SEQUENCE
                                             InterPro, IPR006311, Tat.
InterPro, IPR006311, Tat.
InterPro, IPR004682; TRAP_transptDctP.
Pfam; PF03480; SBP_bac_7; 1.
TIGRPAMs; TIGR01409; TAT_signal_seq; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=518;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98 ASYYYFGKD 106
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proteome.
364 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           proteome.
364 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bordetella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10
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   39997 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    70.0%;
77.8%;
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   8AB6672BA3BF09AD CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Stevens K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>.</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ٤.
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                                                                                                                                                                                                                                             IEA.
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Query Match Best Local Similarity

> 70.0%; 77.8%;

Score 42; Pred. No.

DB 2; 38;

Length 364;

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RESULT 10
Q89NT
Q89NT
AC Q89NT
AC Q89NT
DT 01-UI
DT 01-OC
DE Perig
GN Order
OS Brady
OC Brady
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Best Local S
Matches 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q4QA10_LEIMA
Q4QA10;
13-SEP-2005 (
   Complete
SEQUENCE
                                                                                                                                                                                      Bradyrhizoblum japonicum USDA110.";
DNA Res. 9:189-197(2002).
EMBL; BA000040; BAC49010.1; -; Genomic
GO; GO:0030288; C:periplasmic space (se
GO; GO:0006610; P:transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 25, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
Periplasmic mannitol-binding protein.
OrderedLocusNames=blr2745;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q89NT9 BRAJA PRELIMINARY;
Q89NT9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Peacock C.S., Murphy L., Ivens A.C., Berriman M., Blackwell J Smith D., Collins M., Fosker N., Harris D., Oliver K., O'Neil Saupders D., Seeger K., Warren T., Rajandream M., and Barrell Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; CT005264; CAJ04989.1; -; Genomic_DNA.
                                                  InterPro; IPR006311; Tat.
InterPro; IPR004682; TRAP_transptDctP.
Pfam; PF03480; SBP_bac_7; 1.
TIGRPAMs; TIGR01409; TAT_signal_seq; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=22484998; PubMed=12597275;
Kaneko T., Nakamura Y., Sato S., Minamisawa K., Uci
Sasamoto S., Watanabe A., Idesawa K., Iriguchi M.,
Kohara M., Matsumoto M., Shimpo S., Tsuruoka H., W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bradyrhizobium japonicum.
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Bradyrhizobiaceae; Bradyrhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hypothetical SEQUENCE 3
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STRAIN=Friedlin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Leishmania major.
Eukaryota; Euglenozoa;
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ORFNames=LmjF25.0840;
                                                                                                                                                                                                                                                                                                                             "Complete genomic sequence of nitrogen-fixing Bradyrhizobium japonicum USDA110.";
                                                                                                                                                                                                                                                                                                                                                                                                    Tabata S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=375;
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           Waters E., Hohn M.J., Ahel I., Graham D.E., Adams M.D., Barnstead I Beeson K.Y., Bibbs L., Bolanos R., Keller M., Kretz K., Lin X., Mathur E., Ni J., Podar M., Richardson T., Sutton G.G., Simon M., Soell D., Stetter K.O., Short J.M., Noorderwier M.; "The genome of Nanoarchaeum equitans: insights into early archaeal
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Eukaryota; Metazoa;
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05-JUL-2004
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Proc. Natl. Acad. Sci. U.S.A. 100:12984-12988(2003)
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Archaea; Nanoarchaeota; Nanoarchaeum
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Chordata; Craniata; Vertebrata; Euteleostomi;
Euarchontoglires; Primates; Catarrhini; Hominidae;
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                                                                                      Scheetz T.E.,
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InterPro; IPR007110; Ig-like.
InterPro; IPR003597; Ig c1.
InterPro; IPR003506; Ig MHC.
InterPro; IPR003596; Ig v.
Pfam; PP07654; C1-set; 4.
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SMART; SM00407; IGc1; 4.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 5.
PROSITE; PS00290; IG_MHC; UNKNOWN 3.
SEQUENCE 606 AA; 66185 MW; B6B38
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                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE.
STRAIN-JCM 10545 / 7;
MEDLINE=21456156; PubMed=11572479;
MEDLINE=21456156; PubMed=11572479;
MEDLINE=21456156; PubMed=11572479;
Kawarabayasi Y., Hino Y., Horikawa H., Jin-no K., Takahashi M.,
Sekine M., Baba S.-I., Ankai A., Kosugi H., Hosoyama A., Fukui S.,
Sekine M., Baba S.-I., Ankai A., Nakazawa H., Takamiya M., Kato Y.,
Nagai Y., Nishijima K., Otsuka R., Nakazawa H., Takamiya M., Kato Y.,
Yoshizawa T., Tanaka T., Kudoh Y., Yamazaki J., Xushida N., Oguchi A.,
Aoki K.-I., Masuda S., Yanagii M., Nishimura M., Yamagishi A.,
Oshima T., Kikuchi H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sec
01-OCT-2003 (TrEMBLrel. 25, Last and
1062aa long hypothetical thermopsin.
OrderedLocusNames=ST2615;
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Q96X97;
Q96X97;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sulfolobus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=111955;
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                                                                                                                                                                                                                                     "Complete genome sequence of an aerobic thermoacidophilic Crenarchaeon, Sulfolobus tokodaii strain7.";
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Local Similarity
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                                                                                                                            PF05317; Thermopsin; 1.
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YYYYGMDV 142
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                                                                                                                                                        IPR007981; Peptidase_A5.
                                                                                1062 AA;
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                                                                                                   Hypothetical protein.
  70.0%;
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75.0%;
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Last annotation update)
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                                                                                M.
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Pred. No. 63;
2; Mismatches
  Score 42;
Pred. No.
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                                                                                166F4ED60A040DB4 CRC64;
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63;
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AT PubMed=16020728; DOI=10.1126/science.1112680;

AN Ivens A.C., Peacock C.S., Worthey E.A., Murphy L., Aggarwal G.,

A Berriman M., Sisk E., Rajandream M.A., Adlem E., Aert R., Anupama A.,

RA Apostolou Z., Attipoe P., Bason N., Bauser C., Beck A., Beverley S.M.,

RA Apostolou Z., Attipoe P., Bason N., Bauser C., Beck A., Beverley S.M.,

RA Apostolou Z., Attipoe P., Bason N., Bauser C., Beck A., Beverley S.M.,

RA Apostolou Z., Attipoe P., Bason N., Bauser C., Beck A., Beverley S.M.,

RA Cadag E., Ciarloni L., Clayton C., Coulson R.M., Cronin A., Cruz A.K.,

RA Cadag E., Ciarloni L., Clayton C., Coulson R.M., Cronin A., Cruz A.K.,

RA Cadag E., Ciarloni L., Clayton C., Coulson R.M., Cronin A., Cruz A.K.,

RA Pazelina G., Fosker N., Frasch A.C., Fraser A., Fuchs M., Gabel C.,

RA Goble A., Goffeau A., Harris D., Hertz-Fowler C., Hilbert H., Horn D.,

RA Huang Y., Klages S., Knights A., Kube M., Larke N., Litvin L.,

RA Lord A., Louie T., Marra M., Masuy D., Matthews K., Michaeli S.,

RA Mottram J.C., Muller-Auer S., Munden H., Nelson S., Norbertzak H.,

RA Oliver K., O'Neil S., Pentony M., Pohl T.M., Price C., Purnelle B.,

RA Robben J., Robertson L., Ruiz J.C., Rutter S., Saunders D.,

RA Robben J., Robertson L., Ruiz J.C., Rutter S., Saunders D.,

RA Robben J., Schwartz D.C., Seeger K., Seyler A., Sharp S.,

RA Volckaert G., Wambutt R., Warren T., Wedler H., Woodward J., Zhou S.,

RA Nolleart G., Wambutt R., Barren T., Wedler H., Woodward J., Zhou S.,

RA N., The Ray Rayton D., Smith D.F., Blackwell J.M., Stuart K.D., Barrell B.,

RA N., The Rayton D., Smith D.F., Blackwell J.M., Stuart K.D., Barrell B.,
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Matches
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13-SEP-2005 (TrEMBLrel.
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NUCLEOTIDE SEQUENCE.
STRAIN=LSv54 / DSM 12343;
                                                                                 Desulfobulbaceae;
NCBI_TaxID=84980;
                                                                                                                                                                                                                                                Related to mercuric reductase.
                                                                                                                                                                                                                                                                                                                                                                 QGAQZ1 DESPS PRELIMINARY;
QGAQZ1;
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SEQUENCE 37
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EMBL; CP000081; AAZ14369.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Myler P.J
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                                                                                                                                                  Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales;
                                                                                                                                                                                  Desulfotalea psychrophila.
                                                                                                                                                                                                                    OrderedLocusNames=DP0504;
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70.0%;
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31,
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                                                                                                                                                                                                                                                                                                         sequence update)
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RX PubMed=15305914; DOI=10.1111/j.1462-2920.2004.00665.x;
RA Rabus R., Ruepp A., Frickey T., Rattei T., Fartmann J., Gellner K.,
RA Bauer M., Zibat A., Lombardot T., Becker I., Amann J., Gellner K.,
RA Teeling H., Leuschner W.D., Gloeckner F.-O., Lupas A.N., Amann R.,
RA Klenk H.-P.;
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Result
No.
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Maximum DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Run on:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  seq length: 0
seq length: 2000000000
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1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*

2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/Backfiles1.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  572060 seqs, 82675679 residues
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60
        Maximum Match 100%
Listing first 45 sv
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Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
        DB
                      US-09-840-459-84
US-09-497-625A-84
US-08-053-131-73
US-08-053-131-73
US-08-053-762-73
US-08-096-762-73
US-08-096-762-73
US-08-096-762-73
US-08-096-762-173-13
PCT-US92-10983-73
US-08-053-131-83
US-08-053-131-83
US-08-056-641-83
US-08-056-762-83
US-08-096-762-83
US-08-308-865-83
US-08-308-865-83
US-08-38-417A-718
PCT-US92-10983-83
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US-08-096-762-78
US-08-308-865-78
US-09-042-353-275
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PCT-US92-10983-78
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US-08-645-641-78
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Sequence 78, Appl
Sequence 275, App
Sequence 275, App
Sequence 275, Appl
Sequence 123, Appl
Sequence 84, Appl
Sequence 84, Appl
Sequence 73, Appl
Sequence 74, Appl
Sequence 75, Appl
Sequence 76, Appl
Sequence 118, Appl
Sequence 81, Appl
Sequence 83, Appl
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US-08-053-131-78
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4.5	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
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US-09-453-234-104	US-09-453-234-64	US-09-456-090A-104	US-09-456-090A-64	US-09-472-087-80	US-09-497-625A-79	US-09-497-625A-77	US-09-840-459-79	US-09-840-459-77	US-09-497-625A-88	US-09-840-459-88	PCT-US92-10983-84	US-08-758-417A-129	US-09-042-353-281	US-08-308-865-84	US-08-096-762-84	US-07-853-408B-84	US-08-645-641-84
Sequence 104, App	Sequence 64, Appl		Sequence 64, Appl	Sequence 80, Appl	Sequence 79, Appl		-	-	•	-		•	•			-	Sequence 84, Appl

ALIGNMENTS

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STRANDEDNESS:
TOPOLOGY: ling
MOLECULE TYPE: 1
US-08-053-131-78
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                                                                                                                                                                                                  PILING DATE: 16-DEC-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/810,279

PILING DATE: 17-DEC-1991

PRIOR APPLICATION NUMBER: US 07/853,408

PRIOR APPLICATION NUMBER: US 07/853,408

FILING DATE: 18-MAR-1992

ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,23

REFERENCE/DOCKET NUMBER: 14643-9-3

TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
                                                                                                                                     TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION: 26-APK-1/1.
FILING DATE: 26-APK-1/1.
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
TITTING DATE: 16-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5661016-Human Anima
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, V
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/053,131
FILLING DATE: 26-ARR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
COMPUTER: IBM PC com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew STREET: One Market Plaza, Steuart Tower, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: U
ZIP: 94105
                                                                                       TYPE: amino acid
                                                                                                               LENGTH:
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                                                                                                                    33 amino acids
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                                                                                                                                US-07-853-408B-78
                                                                                                                                                    RESULT 3
                                                                                                                                                                                                                                                                                                                                                          ; TOPOLOGY: linear; MOLECULE TYPE: peptide US-08-645-641-78
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Best Local Similarity bo...
The first conservative
Sequence 78, Application US/07853408B
Patent No. 5789650
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No
TITLE OF INVENTION: Producing Hete
                                                                                                                                                                                                                                                                              Query Match 71.7%;
Best Local Similarity 66.7%;
Matches 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5719032-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
DORGESSEE: William M. Smith
ADDRESSEE: William M. Smith
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-000913
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
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STATE: California
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08 FILING DATE: 20-MAY-1996 CLASSIFICATION: 800
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                                                                                                                                                                                                            10 SYYYYGMDV 18
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66.7%;
Transgenic No. 5789650-Human Animals for Producing Heterologous Antibodies
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Pred. No. 1.6;
                                                                                                                                                                                                                                                                                                    Score 43; DB
Pred. No. 1.6
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TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 78
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: AMINO ACID
STRANDEDNESS: Bingle
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 78, Application US/08096762
Patent No. 5814318
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5814318-Human Animals for TITLE OF INVENTION: Producing Heterologous Antibodies
                                                    ZIP: 94105
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/096,762
FILING DATE: 22-JUL-1993
CLASSIFICATION DATA:
APPLICATION NUMBER: US 08/053,131
APPLICATION NUMBER: US 08/053,131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 1464
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 19920318
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
COMPUTER: IBM PC com
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CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew STREET: One Market Plaza, Steuart Tower, Suite 200
                 FILING DATE: 26-APR-1993 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                              STATE: C
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: One Market I
                                                                                                                                                                                                                                                                                                                                CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        r match 71.7%;
Local Similarity 66.7%;
les 6; Conservative
APPLICATION NUMBER:
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US 07/990,860
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:

23-JUN-1992

US 07/904,068

FILING DATE:

16-DEC-1992

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Best Local Similarity
Matches 6; Conserv
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Patent No. 5
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APPLICATION NUMBER: US 07/810,279

FILING DATE: 17-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: Smith, William M.

REGISTRATION UNMBER: 30,223

REFERENCE/DOCKET NUMBER: 14643-9-4

TELECOMMUNICATION INFORMATION:
APPLICATION NUMBER: US 07/904,068 FILING DATE: 23-UUN-1992 ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223 REFERENCE/DOCKET NUMBER: 14643-9-1-TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Lonberg, N118
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5877397-Human Anima
TITLE OF INVENTION: Producing Heterologous Antibodies
TITLE OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
STREET: One Market Plaza, Steuart Tower,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
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LENGTH: 33 amino acids
                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                       FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/145,707
FILING DATE:
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TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
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                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
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66.7%;
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                                                                                                                                                                                                                                                      US/08/308,865
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                                          14643-9-1-1
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Pred. No. 1.6;
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APPLICANT: Lonber
APPLICANT: Kay, R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/0
FILING DATE: 13-MAR-1998
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                FILING DATE: 26-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/096,762
FILING DATE: 22-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,301
                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-UUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 17-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0:
FILING DATE: 18-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6255458-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
               FILING DATE: 10-DEC-
PRIOR APPLICATION DATA:
                                                                        PRIOR APPLICATION DATA:
                                                                                                         APPLICATION NUMBER: 18-NOV-
FILING DATE: 18-NOV-
PRIOR APPLICATION DATA: 1
APPLICATION NUMBER: 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: San Francisco
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                                                    APPLICATION NUMBER:
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Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
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                                       10-DEC-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US 07/810,279
                                                                                                                                                                                                                                                                                 US 08/053,131
                                                        US 08/165,699
                                                                                                             US 08/161,739
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US 08/209,741
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US-08-758-417A-123; Sequence 123, Application US/08758417A; Patent No. 6300129; GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 01-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 275:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILLING DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/544,404
TITING DATE: 10-0CT-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: 1i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS: LENGTH: 33 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 10-OCT-1996
PRIOR APPLICATION DATA:
APPLICATION UNBER: US 08/758,417
FILING DATE: 02-DEC-1996
PRIOR APPLICATION UNBER: WO PCT/US97/2:
APPLICATION TO DATA:
APPLICATION TO DATA:
APPLICATION UNBER: WO PCT/US97/2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PILING DATE: 10-OCT-1
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
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APPLICATION NUMBER: US 00
FILING DATE: 10-0CT-1996
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS:
                                                                                                                COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                   Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6300129-Human Animals for Producing Heterologous Antibodies
  PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/728,463
FILING DATE: 10-OCT-1996
                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Lonberg, Nils
Kay, Robert M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10 SYYYYGMDV 18
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                                                        APPLICATION NUMBER: US/08/758,417A FILING DATE: 02-Dec-1996 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                    STATE: California
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66.7%;
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Pred. No. 1.6;
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                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 78, Application PC/TUS9210983
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic Non-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                          COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PatentIn Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10983
FILING DATE: 19921217
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (415) 57
INFORMATION FOR SEQ ID NO:
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-2
                                                                                                                                                                                                 ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy (
COMPUTER: IBM PC com
                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 152
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                  CITY: San Francisco
STATE: California
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                                                                                                                                                                                                                                                           94105
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 41,303
REFERENCE/DOCKET NUMBER: 014643-009030US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 07/990,860 FILING DATE: 16-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (415)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Serafini, Andrew T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 26-APR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US 08/053,131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 08/096,762 FILING DATE: 22-JUL-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 08/155,301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 08/161,739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 10-DEC-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 09-MAR-1994
APPLICATION NUMBER: US 08/165,699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US 08/209,741
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 08/544,404 FILING DATE: 10-OCT-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 18-NOV-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 07-DEC-1994
                                                                                                                                                                                                                                                                                  USA
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                                                                                                                                                                                                                     Floppy disk
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66.7%;
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Pred. No. 1.6;
3; Mismatches
                                                                                                                                                           Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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US-09-042-353-275

Matches

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Best Local Similarity
Matches 6; Conserve
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PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR FILING DATE: 1998-07-22
PRIOR-APPLICATION NUMBER: 09/121,781
PRIOR-APPLICATION NUMBER: 09/121,781
PRIOR-APPLICATION NUMBER: 09/121,781
PRIOR-PRILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 107
                                                                                                                                                                                                                                                                                                                                                                                                               US-09-840-459-84
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Matches
                                                                                                            Sequence 84, Application US/09497625A Patent No. 6727349 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 84
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APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: METHODS OF USE THEREFOR
FILE REFERENCE: 1855.1052-012
CURRENT APPLICATION NUMBER: US/09/840,459
CURRENT FILING DATE: 2001-02-02
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APPLICANT: LaRosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Brien, Siobhan H.
APPLICANT: O'Keefe, Theresa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: LaRosa, Gregory J. APPLICANT: Horvath, Christop
                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: peptide
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LENGTH: 33 amino acids
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Local Similarity 66.7%;
hes 6; Conservative
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TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
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                                                                                                                                                                                                                                                      106 SYYYYGMDV 114
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66.7%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                 Score 43; DB Pred. No. 6.4; 3; Mismatches
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RESULT 11
US-08-053-131-73
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                                                                                                                                              COMPUTER: IN PC COMPATIBLE
COMPUTER: IN PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.25
SOPTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/053,131
FILING DATE: 26-APR-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/810,279
FILING DATE: 17-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
ATTORNEY/ACENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-3
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PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 106
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CURRENT APPLICATION NUMBER: US/09/497,625A
CURRENT FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR FILING DATE: 1999-07-22
PRIOR FILING DATE: 1999-07-22
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APPLICANT: Lonber
APPLICANT: Kay, R
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ORGANISM: Homo sapiens
                                                                 TELEFAX: 415-326-2422 INFORMATION FOR SEQ ID NO:
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MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION: Transgenic No. 5661016-Human Animals
TITLE OF INVENTION: Producing Heterologous Antibodies
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
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                                                                                                                            TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: San Francisco
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                                                                                                          TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lonberg, Nils
                                                                                                               415-326-2400
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66.7%;
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Pred. No. 6.4;
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STRANDEDNESS:

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                                                                 US-07-853-408B-73
                                                                                     RESULT 13
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US-08-645-641-73
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              Sequence 73, Application US/07853408B Patent No. 5789650 GENERAL INFORMATION:
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Best Local Similarity 75.0%;
Matches 6; Conservative
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                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                               Query Match
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                  TYPE: amino acids
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION WHERE: US/08/645,641
FILING DATE: 20-MAY-1996
CLASSIFICATION: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 23-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-000913
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
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APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5719032-Human Animu
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
APPLICANT: Lonberg, Nils
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 94111-3834
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                                                                                                                                                                                                             Similarity 6; Conserv
                                                                                                                                                                       YYYFGLDV 11
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                                                                                                                                                                                                                             70.0%;
75.0%;
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                                                                                                                                                                                                             Score 42; DB Pred. No. 2.1 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 42; DB
Pred. No. 2.1;
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                                                                                                                                                                                                                                             DB 1; Length 29;
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US-08-096-762-73
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 73, Application US/08096762 Patent No. 5814318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:

NAME: Smith, William M.

REGISTRATION NUMBER: 30,223

REFERENCE/DOCKET NUMBER: 1464

TELECOMMUNICATION INFORMATION:

TELECHONE: 415-326-2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION: Transgenic No. 5789650-Human Animals for TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
                                                                           COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/096,762
                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew STREET: One Market Plaza, Steuart Tower, Suite 200
                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5814318-Human Animals
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/853,408B
FILING DATE: 1920318
FLING DATE: 1920318
CLASSIFICATION: 800
FILING DATE: 22-JUL-:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
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75.0%;
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Pred. No. 2.1;
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FILING DATE: 26-APR-PRIOR APPLICATION DATA: APPLICATION NUMBER:

26-APR-1993

US 07/990,860

US 07/904,068

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US-08-308-865-73
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Best Local Similarity 75.0%;
Matches 6; Conservative
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APPLICATION NUMBER: US 07/810,279

PILING DATE: 17-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: Smith, William M.

REGISTRATION NUMBER: 30,223

REFERENCE/DOCKET NUMBER: 14643-9-4

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-326-2420

TELEPAX: 415-326-2422
APPLICATION NUMBER: US/08/308,865
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/145,707
FILING DATE:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-1-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Londerg, Nils
APPLICANT: Kay, Robert M.
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5877397-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 415-326-2422 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07
FILING DATE: 23-JUN-1992
                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 23-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: San Francisco
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linear
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Pred. No. 2.1;
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                                                                                                            US-08-308-865-73
                                                                                                                      INFORMATION FOR SEQ ID NO: 7
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                              Yuery Match
Best Local Similarity 75.0%;
Matches 6; Conservative
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                                                                                                                                                                                                                                       TELEPHONE: 415-326-2400
                        4 YYYFGLDV 11
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YYYYGMDV 14
                                                      Score 42; DB 1
Pred. No. 2.1;
2; Mismatches
                                                                                DB 1; Length 29;
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Minimum
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Maximum Match 100%
Listing first 45 summaries
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        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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Gapop 10.0 , Gapext
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                             US-10-632-706-126
US-10-632-706-127
US-11-031-485-110
US-10-452-593-101
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US-10-783-311-137
US-10-783-311-27
US-09-880-748-3068
US-10-793-311-271
US-09-880-748-1600
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Sequence 126, App Sequence 127, App Sequence 101, App Sequence 101, App Sequence 15, App1 Sequence 15, App1 Sequence 18, App1 Sequence 114, App Sequence 114, App Sequence 135, App Sequence 137, App Sequence 277, App Sequence 271, App Sequence 276, App Sequence 276, App Sequence 2876, App Sequence 206, App Sequence 206, App Sequence 206, App Sequence 18, App Sequence 19, App Sequence 206, App Sequence 19, App Sequence 206, A
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RESULT 2 US-10-632-706-127 US-10-632-706-127 ; Sequence 127, Application US/10632 ; Sequence 127, Application US/10632 ; Publication No. US20040175385A1 ; GREERAL INFORMATION: APPLICANT: MARKS, JAMES D. APPLICANT: MARKS, JAMES D. APPLICANT: MARKS, JAMES D. TITLE OF INVENTION: MEDRAPEUTIC M. TITLE OF INVENTION: NEUROTOXINS ; TITLE OF INVENTION NUMBER: US/05-00-01 ; CURRENT PILING DATE: 2003-08-01 ; PRIOR APPLICATION NUMBER: US/60/4 ; PRIOR PILING DATE: 2003-08-01 ; PRIOR PILING DATE: 2003-08-01	Dest Local Similarity Best Local Similarity Matches 11; Conservat  Qy 1 LATYYYFGLDV	PRIOR APPLICATION NUMBER: U PRIOR FILING DATE: 1998-08- NUMBER OF SEQ ID NOS: 278 SOFTWARE: PATENTIN VERSION SEQ ID NO 126 LENGTH: 11 TYPE: PRT ORGANISM: Artificial FEATURE: OTHER INFORMATION: Single US-10-632-706-126	RESULT 1  US-10-632-706-126  US-10-632-706-126  ; Sequence 126, Application US/10632; Publication No. US20040175385A1 ; GENERAL INFORMATION: ; APPLICANT: MARKS, JAMES D. ; APPLICANT: MARKS, JAMES D. ; APPLICANT: MARKS, JAMES D. ; TITLE OF INVENTION: THERAPEUTIC M ; TITLE OF INVENTION: NEUROTOXINS; TITLE REFERENCE: 4077-895120US ; CURRENT APPLICATION UNMERS: US/10; CURRENT FILING DATE: 2003-08-01; PRIOR FILING DATE: 2003-08-01		28 44 73.3 31 44 73.3 32 44 73.3 33 44 73.3 34 44 73.3 35 44 73.3 36 44 73.3 37 44 73.3 38 44 73.3 49 44 73.3 40 44 73.3 41 42 73.3 42 73.3
706 ONOCLONAL ANTIBODIES (632,706	tive 0; Mismatches 0; Indels	US 09/144,806 8-31 n 3.2 e chain antibody fragment	706 ONOCLONAL ANTIBODIES /632,706	U	124 4 US-10-292-088-106 127 4 US-10-041-860-31 127 4 US-10-041-860-343 127 4 US-10-041-860-325 127 4 US-10-645-383-42 127 4 US-10-665-383-42 127 4 US-10-665-383-42 127 4 US-10-684-960A-2 129 4 US-10-292-088-10 134 4 US-10-324-743-16 134 4 US-10-324-743-10 134 4 US-10-344-743-10 134 4 US-10-342-793-16 134 5 US-10-452-593-10 134 5 US-10-452-593-10 134 5 US-10-473-287-33 136 5 US-10-473-287-34 137 5 US-10-473-287-63
THAT NEUTRALIZB BOTULINUM	ls 0; Gaps 0;		THAT NEUTRALIZE BOTULINUM		Sequence 106, Appl Sequence 31, Appl Sequence 243, Appl Sequence 325, Appl Sequence 42, Appl Sequence 53, Appl Sequence 10, Appl Sequence 110, Appl Sequence 116, Appl Sequence 34, Appl Sequence 34, Appl Sequence 63, Appl Sequence 63, Appl

PRIOR FILING DATE: 2002-08-01 PRIOR APPLICATION NUMBER: US 09/144,806

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APPLICANT: Bowdish, Katherine S.
APPLICANT: Frederickson, Shana
APPLICANT: Wild, Martha A.
APPLICANT: Maruyama, Toshiaki
APPLICANT: Maruyama, Toshiaki
APPLICANT: Maruyama, Toshiaki
APPLICANT: No. US2004009178A1an, Mary Jean
ITILE OF INVENTION: IMMUNOTHERAPEUTICS FOR BIODEFENSE
FILE REFERENCE: 84 (1087-73)
CURRENT FILING DATE: 2003-02-11
PRIOR APPLICATION NUMBER: US 60/428,807
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 118
SOCTWARE: Patentin version 3.2
LENGTH: 129
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; ORGANISM: Homo sapiens
US-11-031-485-116
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                                                                                                                                                                                                                                                                                                                                       Sequence 101, Application US/10364743 Publication No. US20040009178A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: ABX-PF6
CURRENT APPLICATION NUMBER: US/11/031,485
CURRENT FILING DATE: 2005-01-07
PRIOR APPLICATION NUMBER: 60/535,490
PRIOR FILING DATE: 2004-01-09
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PATENTIN Ver. 3.3
SEQ ID NO 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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APPLICANT: MOLLOY, ELIZABETH
APPLICANT: KELLERMANN, SIRID-AIMEE
APPLICANT: GREEN, LARRY L.
APPLICANT: HAAK-FRENDSCHO, MARY
TITLE OF INVENTION: ANTIBODIES TO MAGCAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80.0%;
Local Similarity 63.6%;
les 7; Conservation
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1 LATYYYFGLDV 11
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Pred. No. 2.8;
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APPLICANT: Bowdish, Katherine S.
APPLICANT: Wild, Martha A.
APPLICANT: Wild, Martha A.
APPLICANT: Maruyama, Toshiaki
APPLICANT: Mo. US20040009178A1an, Mary Jean
TITLE OF INVENTION: IMMUNOTHERAPEUTICS FOR BIODEFENSE
FILE REFERENCE: 84 (1087-73)
CURRENT APPLICATION NUMBER: US/10/364,743
CURRENT APPLICATION NUMBER: US/6/428,807
PRIOR FILING DATE: 2003-02-11
PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 118
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; ORGANISM: human
US-10-364-743-101
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US-10-364-743-15
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US-10-452-593-101
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SOFTWARE: Pat
SEQ ID NO 15
LENGTH: 134
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PRIOR FILING DATE: 2002-11-25
NUMBER OF SEQ ID NOS: 118
SOFTWARE: PatentIn version 3.2
SEQ ID NO 101
LENGTH: 129
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Best Local Similarity
Matches 7; Conserv
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Best Local :
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APPLICANT: Wild, Martha A.
APPLICANT: Wild, Martha A.
APPLICANT: Maruyama, Toshiaki
APPLICANT: Nolan, Mary Jean
TITLE OF INVENTION: IMMUNOTHERAPEUTICS FOR BIODEFENSE
FILE REFERENCE: 98 CIP (1087-73 CIP)
CURRENT APPLICATION NUMBER: US/10/452,593
CURRENT FILING DATE: 2003-06-02
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PRIOR FILING DATE: 2003-02-11
PRIOR APPLICATION NUMBER: US 60/356,086
PRIOR FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: US 60/376,408
PRIOR FILING DATE: 2002-04-29
PRIOR FILING DATE: 2002-04-29
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Local Similarity 77.8%;
tes 7; Conservative
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105 TYYYYGMDV 113
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77.8%;
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Pred. No. 4.4;
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PILE REPERENCE: ABX-PF6
CURRENT APPLICATION NUMBER: US/11/031,485
CURRENT FILING DATE: 2005-01-07
PRIOR APPLICATION NUMBER: 60/535,490
PRIOR FILING DATE: 2004-01-09
NUMBER OF SEQ ID NOS: 147
SOFTWARE: Patentin Ver. 3.3
SEQ ID NO 56
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Best Local Similarity
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US-10-452-593-15
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Best Local Similarity 77.
Conservative
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                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                              Sequence 56, Application US/11031485 Publication No. US20050232917A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Bowdish, Katherine S. APPLICANT: Frederickson, Shana
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PRIOR FILING DATE: 2002-02-11
PRIOR APPLICATION NUMBER: US 60/376,408
PRIOR FILING DATE: 2002-04-29
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                                                                                                                                                                                       APPLICANT: GREEN, LARRY L.
APPLICANT: HAAK-FRENDSCHO, MARY
TITLE OF INVENTION: ANTIBODIES TO MACCAM
                                                                                                                                                                                                                                         APPLICANT: PULLEN, NICHOLAS
APPLICANT: MOLLOY, ELIZABETH
APPLICANT: KELLERMANN, SIRID-AIMEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 2002-11-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 134
TYPE: PRT
ORGANISM: Homo sapiens
                              LENGTH: 468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 60/428,807
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Wild, Martha A.
Maruyama, Toshiaki
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77.8%;
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77.8%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 47; DB 5; Pred. No. 4.5;
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US-11-031-485-18
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                                                                 ; OTHER INFORMATION: single chain antibody fragment US-10-632-706-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-632-706-114
                                                                                                                                                                                                                        Sequence 114, Application US/10632706

Publication No. US20040175385A1

GENERAL INFORMATION:

APPLICANT: MARKS, JAMES D.

APPLICANT: MARKS, JAMES D.

APPLICANT: MARKS, PETER
APPLICANT: MERSDORFER, PETER
APPLICANT: NEUROTOXINS

TITLE OF INVENTION: NEUROTOXINS

FILE REFERENCE: 407T-895120US

CURRENT APPLICATION NUMBER: US/10/632,706

CURRENT FILING DATE: 2003-08-01

PRIOR APPLICATION NUMBER: US 60/400,721

PRIOR APPLICATION NUMBER: US 09/144,806

PRIOR FILING DATE: 2002-08-01

PRIOR FILING DATE: 1998-08-31

PRIOR FILING DATE: 1998-08-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 18, Application US/11031485
Publication No. US20050232917A1
GENERAL INFORMATION:
APPLICANT: PULLER, NICHOLAS
APPLICANT: MOLLOY, ELIZABETH
APPLICANT: MOLLOY, ELIZABETH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 18
LENGTH: 469
                                                                                                                                                    NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn version 3.2
SEQ ID NO 114
LENGTH: 13
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Query Match 76.7%;
Best Local Similarity 70.0%;
Matches 7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE: 2004-01-09
NUMBER OF SEQ ID NOS: 147
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                                                                                                       ORGANISM: Artificial FEATURE:
                                                                                                                                          TYPE: PRT
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nes 7; Conserv
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HAAK-FRENDSCHO, MARY
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KELLERMANN, SIRID-AIMEE
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77.8%;
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77.8%;
 Score 46; DB 4; Length 13; Pred. No. 0.64; 2; Mismatches 1; Indels
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Pred. No.
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Pred. No.
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ATYYYFGLDV

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RESULT 13
US-10-783-311-277
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Best Local Similarity
Tatches 7; Conserva
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US-10-783-311-135
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Best Local Similarity
Matches 7; Conserve
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APPLICANT: Hogan, Shannon
TITLE OF INVENTION: PAPP-A LIGANDS
FILE REFERENCE: 10280-059001
CURRENT APPLICATION NUMBER: US/10/783,311
CURRENT FILING DATE: 2004-02-19
PRIOR APPLICATION NUMBER: US 60/448,515
PRIOR FILING DATE: 2003-02-19
                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 394
SOFTWARE: FRANCSEQ for Windows Version 4.0
SEQ ID NO 135
LENGTH: 140
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 141, Application US/10783311
Publication No. US20050009136A1
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TITLE OF INVENTION: PAPP-A LIGANDS
FILE REFERENCE: 10280-059001
CURRENT APPLICATION NUMBER: US/10/783,311
CURRENT FILING DATE: 2004-02-19
PRIOR APPLICATION NUMBER: US 60/448,515
PRIOR FILING DATE: 2003-02-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Nixon, Andrew APPLICANT: Hogan, Shann
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ORGANISM: Artificial Sequence
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Pred. No.
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Publication No. US20050009136A1
GENERAL INFORMATION:
APPLICANT: Nixon, Andrew
APPLICANT: Nixon, Shannon
TITLE OF INVENTION: PAPPA LIGANDS
FILE REFERENCE: 10280-05901
CURRENT APPLICATION NUMBER: US/10/783,311
CURRENT FILING DATE: 2004-02-19
PRIOR APPLICATION NUMBER: US 60/448,515
PRIOR FILING DATE: 2003-02-19
UNMBER OF SEQ ID NOS: 394
NUMBER OF SEQ ID NOS: 394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/276,248
PRIOR PILING DATE: 2001-03-16
PRIOR PPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR PILING DATE: 2001-05-25
PRIOR DATE: 21
                                                                                                                    RESULT 15
US-10-293-418-3068
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Best Local Similarity
Watches 7; Conserve
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US-09-880-748-3068
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Sequence 3068, Application US/10293418
Publication No. US20030223998A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3068, Application US/09880748
Publication No. US20030059937A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 75.0%;
Best Local Similarity 63.6%;
Matches 7; Conservative
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SEQ ID NO 277
LENGTH: 16
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CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR FILING DATE: 2000-10-17
                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT ORGANISM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Heavy Chain amino acid sequence
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Pred. No. 1.5;
2; Mismatches
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Pred. No. 1.2;
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CURRENT APPLICATION NUMBER: US/10/293,418

CURRENT FILING DATE: 2002-11-27

PRICE APPLICATION NUMBER: 60/340,817

PRICE FILING DATE: 2001-11-16

PRICE FILING DATE: 2001-6-15

PRICE PLICE DATE: 2001-6-15

PRICE PLICE DATE: 2001-6-15

PRICE APPLICATION NUMBER: 60/277,379

PRICE PLICE DATE: 2001-05-25

PRICE APPLICATION NUMBER: 60/276,248

PRICE APPLICATION NUMBER: 60/276,248

PRICE APPLICATION NUMBER: 60/210,210

PRICE PLING DATE: 2000-06-16

PRICE PLING
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Title:
Perfect score:
Sequence:
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Maximum DB
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Maximum Match 100%
Listing first 45 summaries
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       Pred. No. is the number of results predicted by chance to have a Score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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seq
       protein search, using
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1: /cgn2_6/ptodatta/1/pubpaa/US09_NEW_PUB.pep:*

2: /cgn2_6/ptodatta/1/pubpaa/US05_NEW_PUB.pep:*

3: /cgn2_6/ptodatta/1/pubpaa/US07_NEW_PUB.pep:*

4: /cgn2_6/ptodatta/1/pubpaa/US08_NEW_PUB.pep:*

5: /cgn2_6/ptodatta/1/pubpaa/US10_NEW_PUB.pep:*

6: /cgn2_6/ptodatta/1/pubpaa/US11_NEW_PUB.pep:*

7: /cgn2_6/ptodatta/1/pubpaa/US11_NEW_PUB.pep:*

8: /cgn2_6/ptodatta/1/pubpaa/US10_NEW_PUB.pep:*
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US-11-054-515-12876
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US-11-054-515-870
US-11-054-515-1288
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Sequence 3068, Ap Sequence 1600, Ap Sequence 2129, Ap Sequence 3176, Ap Sequence 3, Appli Sequence 3, Appli Sequence 3, Appli Sequence 1288, App Sequence 1288, App Sequence 1288, App Sequence 2817, App Sequence 2817, App Sequence 2935, Ap Sequence 2935, Ap Sequence 2935, Ap Sequence 3052, Ap Sequence 3052, Ap Sequence 3052, Ap Sequence 3057, Ap Sequenc
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RESULT 2

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APPLICANT: Ruben et al.

TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION UMMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR PRILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR APPLICATION NUMBER: 60/331,469
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Best Local Similarity
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US-11-054-515-1600
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SEQ ID NO 1600
LENGTH: 256
TYPE: PRT
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Publication No. US2005025532A1
GENERAL INFORMATION:
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PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
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CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
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PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
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FILING DATE: 2001-05-25
APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
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APPLICATION NUMBER: 60/340,817
FILING DATE: 2001-12-19
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                                                                                                             APPLICATION NUMBER: 09/880,748
FILING DATE: 2001-06-15
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                        APPLICATION NUMBER: 60/277,379 FILING DATE: 2001-03-21
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                                                                 FILING DATE:
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NUMBER: 60/276,248
                                                               2001-05-25
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; PRIOR FILING DATE: 2001-03-16
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; Remaining Prior Application data removed - See File Wrapper or PALM.; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 2129
; SEQ ID NO 2129
; SEQ ID NO 2129
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-2129
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US-11-054-515-2876
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RESULT 5
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 2876
LENGTH: 17
TYPE: PRT
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Publication No. US20050255532A1
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CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
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PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 09/880,748
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR ETILING DATE: 2001-06-15
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PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
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PRIOR FILING DATE: 2000-10-17
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PRIOR FILING DATE: 2001-11-16
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Local Similarity 63.6%;
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                                                                                                                                           Conservative
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                                                                                                                                                           73.3%;
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                                                                                                                                      Score 44; DB 7; Length 17; Pred. No. 0.021; Indels 2; Indels
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Pred. No. 0.02;
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US-11-054-515-1431
Sequence 1431, Application US/11054515
Publication No. US20050255532A1
GENERAL INFORMATION:

PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILLING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILLING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILLING DATE: 2002-11-14
PRIOR FILLING DATE: 2002-11-14

APPLICATION NUMBER: 60/331,469

2001-11-16

FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10

TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS

PRIOR PRIOR PRIOR PRIOR

FILING DATE:

APPLICATION NUMBER: 09/880,748

2001-06-15

APPLICATION NUMBER: 60/340,817 FILING DATE: 2001-12-19

FILING DATE: FILING DATE: Mon

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Publication No. US20050255532A1
GENERAL INFORMATION:
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PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/31,469
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/340,817
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CURRENT FILING DATE: 2005-02-10
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PRIOR FILING DATE: 2004-02-11
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                                                                                           APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
                                                                                                                                    APPLICATION NUMBER: 60/293,499 FILING DATE: 2001-05-25
                                                                                                                                                                                           APPLICATION NUMBER: 09/880,748
                    FILING DATE: 2000-10-17
                                        APPLICATION NUMBER: 60/240,816
                                                          APPLICATION NUMBER: 60/276,248 FILING DATE: 2001-03-16
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Prior Application data removed -
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Pred. No. 0.28;
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    See File Wrapper or PALM
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RESULT 7
US-11-054-515-838
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; LENGTH: 254
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-3
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; Publication No. US200
; GENERAL INFORMATION:
; APPLICANT: Ruben et
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LENGTH: 254
                                                                                                         Sequence 870, Application No. US20 GENERAL INFORMATION
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CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
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PRIOR PILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
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TYPE: PRT
ORGANISM: Homo sapiens
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Local Similarity 63.6%;
nes 7; Conservation
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FILING DATE: 2001-12-19
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o. US20050255532A1
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Pred. No. 0.28;
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Pred. No. 0
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; TYPE: PRT ; ORGANISM: Homo sapiens US-11-054-515-1431

SEQ ID NO 1431 LENGTH: 252

Remaining Prior Application data removed - See File Wrapper or PALM NUMBER OF SEQ ID NOS: 3247

APPLICATION NUMBER: 60/240,816 FILING DATE: 2000-10-17

FILING DATE: 2001-03-21
APPLICATION NUMBER: 60/276,248 APPLICATION NUMBER: 60/277,379 APPLICATION NUMBER: 60/293,499 FILING DATE: 2001-05-25

FILING DATE: 2001-03-16

60/580,347

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SEQ ID NO 870
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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LOCATION: (42)
OTHER INFORMATION: Xaa
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OTHER INFORMATION:
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                                                                      NAME/KEY: Site
LOCATION: (235)
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LOCATION: (176)
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OTHER INFORMATION:
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OTHER INFORMATION:
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OTHER INFORMATION:
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OTHER INFORMATION:
                              NAME/KEY:
                                                                                                          OTHER INFORMATION:
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OTHER INFORMATION:
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FILING DATE: 2001-05-25
APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
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FILING DATE: 2001-12-19
APPLICATION NUMBER: 09/880,748
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APPLICATION NUMBER: 60/
FILING DATE: 2004-06-18
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                 Site
(239)
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(192)
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US-11-054-515-1287

US-11-054-515-1287

Sequence 1287, Application US/11054515

Publication No. US2005025532A1

GENERAL INFORMATION:
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; NAME/KEY: Site
; LOCATION: (240)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-054-515-870
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Best Local Similarity
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US-11-054-515-1288
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                                                    Sequence 1288, Application US/11054515
Publication No. US2005025532A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
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NUMBER OF SEQ ID NOS:
SEQ ID NO 1287
LENGTH: 254
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TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
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PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
PRIOR APPLICATION NUMBER: 60/331,469
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PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
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PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 09/880,748
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CURRENT FILING DATE: 2005-02-10
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PRIOR FILING DATE: 2001-05-25
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Similarity 63.6%;
7; Conservation
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Pred. No. 0.
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Pred. No. 0.28;
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FILING DATE: 2004-02-11
APPLICATION NUMBER: 60/580,347

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RESULT 11
US-11-017-550-47
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; ORGANISM: Homo sapiens
US-11-054-515-1288
                                                    ; ORGANISM: Methanococcus jannaschii
US-11-017-550-47
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LENGTH: 254
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Query Match
Best Local Similarity
                                                                                                                   SEQ ID NO 47
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PRIOR FILING DATE: 2002-02-06
NUMBER OF SEQ ID NOS: 79
                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: US/10/126,927
PRIOR FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: US 60/285,030
PRIOR FILING DATE: 2001-04-19
                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/11/017,550 CURRENT FILING DATE: 2004-12-17
                                                                                                                                                                                                                                                                                                           APPLICANT: Pastrnak, Miro
APPLICANT: Santoro, Stephen W
APPLICANT: Zhang, Zhiwen
TITLE OF INVENTION: In Vivo Incorporation of Unnatural Amino Acids
FILE REFERENCE: 54-000120US
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                                                                                                                                     SOFTWARE: PatentIn version 3.1
                                                                                      TYPE: PRT
                                                                                                    LENGTH: 306
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Local Similarity 63.6%;
nes 7; Conservative
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R FILING DATE: 2002-11-14
OR APPLICATION NUMBER: 60/331,469
OR FILING DATE: 2001-11-16
OR APPLICATION NUMBER: 60/340,817
OR FILING DATE: 2001-12-19
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FILING DATE: 2001-05-25
APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
APPLICATION NUMBER: 60/276,248
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Meggers, Eric L
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Score 43;
Pred. No.
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 DB 7;
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Sequence 2817, Application US/11054515
; Debication No. US2005025532A1
; GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/543,347
PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
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US-11-054-515-2817
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-3091
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US-11-054-515-3091
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PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/331,469
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 391
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Publication No. US20050255532A1
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CURRENT FILING DATE: 2005-02-10
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PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
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PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
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PRIOR APPLICATION NUMBER: 60/331,469 PRIOR FILING DATE: 2001-11-16
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Local Similarity 75.0%;
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Pred. No. 0.035;
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US-11-054-515-2817
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PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR PILING DATE: 2000-10-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 2817
                                                                     Query Match 70.0%;
Best Local Similarity 75.0%;
Matches 6; Conservative
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 2735
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Best Local (
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CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR APPLICATION NUMBER: 60/593,418
PRIOR APPLICATION NUMBER: 10/293,418
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PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
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TYPE: PRT
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TYPE: PRT
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APPLICATION NUMBER: 09/880,748
FILING DATE: 2001-06-15
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FILING DATE: 2001-03-21
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                     4 YYYFGLDV 11
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Similarity 75.0%;
6; Conservative
 YYYYGMDV 19
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Pred. No. 0.04
2; Mismatches
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                                                                       Score 42; DB 7;
Pred. No. 0.051;
2; Mismatches
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0.046;
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                                                                                                            Length 19;
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Search completed: December 4, 2005, 04:37:48 Job time: 3.20833 secs
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US-11-054-515-2899
                                                                                                                                                                                                                                                                                                                ; SEQ ID NO 2899
; LENGTH: 19
; TYPE: PRT
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                                                                                                                                                                                                 Query Match
Best Local (
                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                      PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
Remaining Prior Application data removed - See File Wrapper or NUMBER OF SEQ ID NOS: 3247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 10/293,418 PRIOR FILING DATE: 2002-11-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/340,817
PRIOR FILING DATE: 2001-12-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Ruben et al
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE: 2001-06-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR FILING DATE: 2001-11-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/331,469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 2004-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 09/880,748
                                                                                      12
                                                                                                                                4 YYYFGLDV 11
                                                                                                                                                                         h 70.0%;
Similarity 75.0%;
6; Conservative
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                                                                                                                                                                            Score 42; DB 7;
Pred. No. 0.051;
2; Mismatches
                                                                                                                                                                              0,
                                                                                                                                                                                                                      Length 19;
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Minimum DB seq length: 0
Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                               Searched:
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Perfect score:
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66
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                                                                                                                                                                                                                                                                                           1867569 seqs, 417829326 residues
                                                                                                                                                                                                                                                                                                                                                                                 1 GPWELVGYFDS 11
Listing first 45 summaries
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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Result No.	Score	Query Match	Length	BB	ID	Description
١.		۰:	11	4	US-10-632-706-128	Sequence 128, App
2	45	σ	290	4	-10-156-761-9	equence 9341
u	44	٥.	306	4	-10-282-122A-734	e 73455
4	44		367	4	-10-282-122A-7496	equence 74966
IJ	44	٥.	367	4.	-10-282-122A-7580	e 75801
0	42	·	381	4.	-10-437-963-19222	e 1922
7	41	62.1	125	4	-10-425-115-25336	e 25336
8	41	ε	171	4	0-424-599-186	e 1865
9	41		475	4.	-10-282-122A-4837	Sequence 48377, A
10	41	62.1	475	4	US-10-437-963-187947	Sequence 187947,
11	41		792	U	-10-481-032A-	Sequence 252, App
12	41	۲	1352	σ	US-11-097-143-29418	29418,
13	40	?	50	4	4-599-1827	e 18276
14	40	?	78	4	5-115-3196	е 319649,
15	40	60.6	146	4	-10-477-	e 21,
16	40		160	4	-10-425-115-	e 333
17	40		477	4.	-10-425-114-7009	equence 70098
18	40	.0	507	4	4-599-22	e 2292
19	40		891	4.	-10-425-115-2293	Sequence 229314,
20	40		931	5	2-923-2238	equence 22388,
21	40	0	949	Ŋ	-10-732-923-2238	e 22387
22	40	0	1355	4	-10-437-963-1104	equence 11
23	39.5	9	511	4.	US-10-425-114-52508	Sequence 52508, A
24	39	9	118	4.	-10-424-599-	equence 19
25	39	9	207	4	4-599-16398	e 16398
26	39	9	235	υī	-10-732-9	equence 22
27	39	59.1	460	4	US-10-424-599-224678	Sequence 224678,
27			460	4.	7-669-575-0T-	46/

45	44	43	42	41	40	39	38	37	36	ω 5	34	33	32	31	30	29	t
38	38	38	38	38	38	38	38	39	39	39	39	39	39	39	39	39	١
57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	1
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US-10-425-114-53925	US-10-424-599-230098	US-10-767-701-60011	US-10-424-599-205846	US-10-437-963-141911	US-10-437-963-150254	US-10-425-115-277808	US-09-764-891-3713	US-10-437-963-111662	US-10-437-963-121132	US-10-437-963-204079	US-10-732-923-22383	US-10-732-923-22382	US-10-450-763-50763	US-10-282-122A-46814	US-10-437-963-121136	US-10-739-930-10546	
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	•
53925, A	230098,	60011, A	205846,	141911,	150254,	277808,	3713, Ap	111662,	121132,	204079,	22383, A	22382, A	50763, A	46814, A	121136,	10546, A	

## ALIGNMENTS

RESULT 1 US-10-632-706-128

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; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-128
                                                                                                                                                                                                                                                                                                                 RESULT 2
US-10-156-761-9341
                                        APPLICANT: OMURA, SATOSHI
APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: HORIKAWA, HIROSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SAKAKI, YOSHIYUKI
APPLICANT: HATTORI, MASAHIRA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: THEALPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION UNBER: US(10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR FILING DATE: 2002-08-01
PRIOR FILING DATE: 2002-08-01
PRIOR FILING DATE: 2002-08-01
PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOPTWARE: Patentin version 3.2
SEQ ID NO 128
LENGTH: 11
                                                                                                                                                                                                                                     Sequence 9341, Application US/10156761 Publication No. US20030119018A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 128, Application US/10632706
Publication No. US20040175385A1
GENERAL INFORMATION:
APPLICANT: MARKS, JAMES D.
APPLICANT: AMERSDORFER, PETER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 100.0%; Score 66; DB 4; Best Local Similarity 100.0%; Pred. No. 0.00072; Matches 11; Conservative 0; Mismatches 0;
CURRENT APPLICATION NUMBER: US/10/156,761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
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CURRENT FILING DATE:

2002-05-29

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PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 934
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-9341
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                                                       US-10-282-122A-73455
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CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR PILING DATE: 2000-05-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-282-122A-73455
                                                                   SOFTWARE: PatentIn version 3.1
SEQ ID NO 73455
LENGTH: 306
TYPE: PRT
ORGANISM: Salmonella paratyphi
   Query Match
Best Local Similarity
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APPLICANT:
APPLICANT:
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                                                                                                                                                                                                  PRIOR FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 2000-09-09
APPLICATION NUMBER: 60/242,578
                                                                                                                                                                                                                                                    FILING DATE: 2000-12-22
APPLICATION NUMBER: 60/267,636
                                                                                                                                                                                                                                                                                     FILING DATE: 2000-11-27
APPLICATION NUMBER: 60/257,931
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/230,335
FILING DATE: 2000-09-06
                                                                                                                                                                                                                   APPLICATION NUMBER: 60/269,308
                                                                                                                                                                                                                                       FILING DATE: 2001-02-09
                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/253,625
                                                                                                                                                                                                                                                                                                                                          FILING DATE: 2000-10-23
                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/230,347
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Yamamoto, Ro
Forsyth, R.
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Malone, Cheryl
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Trawick, John
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77.8%;
   66.7%;
69.2%;
   Score 44;
Pred. No.
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Pred. No.
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DB 58;
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                    4.
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                    Length 306;
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RESULT 5
US-10-282-122A-75801
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PRIOR FILING DATE: 2000-11-27
PRIOR PELLING DATE: 2000-12-27,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR PILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn version SEQ ID NO 74966
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Publication No. US20040029129A1
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Identification of Essential Genes in Microorganisms FILE REFERENCE: ELITRA.034A CURRENT APPLICATION NUMBER: US/10/282,122A CURRENT FILING DATE: 2003-02-20 PRIOR APPLICATION NUMBER: 60/191,078 PRIOR FILING DATE: 2000-03-21 PRIOR FILING DATE: 2000-03-21 PRIOR PPLICATION NUMBER: 60/206,848 PRIOR FILING DATE: 2000-05-23 PRIOR FILING DATE: 2000-05-23 PRIOR FILING DATE: 2000-05-26 PRIOR FILING DATE: 2000-05-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT ORGANISM: Salmonella typhimurium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 60/242,578 PRIOR FILING DATE: 2000-10-23
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PRIOR APPLICATION NUMBER: 60/230,347
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 367
                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                         127 GPWELVLGPFGYF 139
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Malone, Cheryl
Haselbeck, Robert
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Yamamoto, Robert
Forsyth, R.
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69.2%;
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GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos

Sequence 75801, Application US/10282122A Publication No. US20040029129A1

Malone, Cheryl Haselbeck, Robert

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APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
PILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 192224
                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: LA ROBA, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey I
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CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
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PRIOR FILING DATE: 2000-05-26
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PRIOR FILING DATE: 2000-05-23
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FILING DATE: 2000-09-09
APPLICATION NUMBER: 60/242,578
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Yamamoto, Robert
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Trawick, John
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Zyskind, Judith
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Pred. No.
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                                                                               ; OTHER INFORMATION: Clone ID: PAT_MRT3847_139463C.1.pep US-10-424-599-186545
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CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 253365
LENGTH: 125
                                                                                                                                                                     NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 186545
LENGTH: 171
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APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
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Best Local Similarity 75.0%;
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Best Local Similarity
           Matches
                                           Query Match
                                                                                                                                                                                                                        APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
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APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules
TITLE OF INVENTION: Plants
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APPLICANT: Kovalic David
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FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_16264C.1.pep
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                                                                                                                    ORGANISM: Glycine max FEATURE:
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62.1%;
Local Similarity 60.0%;
hes 6; Conservative
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66.7%;
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                            Score 41; DB 4;
Pred. No. 1e+02;
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Pred. No. 78;
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                                               Length 171;
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; ORGANISM: Bacteroides fragilis
US-10-282-122A-48377
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Best Local S
Matches 6
                                                           Sequence 187947, Application US/10437963 Publication No. US20040123343A1 GENERAL INFORMATION:
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APPLICANT: La Rosa, Thomas J. APPLICANT: Kovalic, David K. APPLICANT: Zhou, Yihua
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SOFTWARE: Patentin version 3.1
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                                                                                                                                                                                                                                                                                                                                                                                                       ENGTH: 475
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FILING DATE: 2000-12-22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/207,727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 60/267,636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/253,625
FILING DATE: 2000-11-27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 2000-09-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: 60/230,335
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Malone, Cheryl
Haselbeck, Robert
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Zyskind, Judith
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Pred. No.
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                                                                                                                                                                                                                                                                                                            Length 475;
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TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(53221)B; CURRENT APPLICATION UMBER: US/10/437,963; CURRENT FILING DATE: 2003-05-14; NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 187947
LENGTH: 475
TYPE: PRT
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US-10-481-032A-252
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Best Local S
Matches 7
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SEQ ID NO 252
LENGTH: 792
TYPE: PRT
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Provart, Nicolas
APPLICANT: Ricke, Dariel
TITLE OF INVENTION: IDENTIFICATION AND CHARACTERIZATION OF PLANT GENES
FILE REFERENCE: 60148USPCT
CURRENT APPLICATION NUMBER: US/10/481,032A
CURRENT FILING DATE: 2003-12-16
PRIOR APPLICATION NUMBER: US 60/300,112
PRIOR FILING DATE: 2001-06-22
PRIOR FILING DATE: 2001-06-22
PRIOR FILING DATE: 2001-06-22
PRIOR FILING DATE: 2001-06-22
                                                                                                                                                                                                                                PRIOR FILING DATE: 2002-06-21
NUMBER OF SEQ ID NOS: 1201
                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: US 60/325,277
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US 60/342,327
PRIOR FILING DATE: 2001-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Zhu, Tong
                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: PCT/IB02/02450
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                                                        FEATURE:
NAME/KEY: misc feature
LOCATION: (12)...(14)
OTHER INFORMATION: Xaa
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ORGANISM: Oryza sativa
FEATURE:
NAME/KEY: misc_feature
LOCATION: (16)..(16)
                                                                                                                             ORGANISM: Oryza sativa
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Briggs, Steven
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Katagiri, Fumiaki
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70.0%;
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                                                        any naturally occuring amino acid
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Pred. No. 2.7e+02;
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; NAME/KRY: misc_feature; LOCATION: (673)...(673) oTHER INFORMATION: Xaa = any naturally occuring US-10-481-032A-252
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Query Match
Best Local Similarity
Thehes 7; Conserva
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US-11-097-143-29418
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CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR FILING DATE: 1999-10-28
PRIOR FILING DATE: 1999-11-12
PRIOR FILING DATE: 1999-11-12
PRIOR FILING DATE: 1999-11-12
PRIOR FILING DATE: 1999-11-12
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR FILING DATE: 2000-01-12
PRIOR FILING DATE: 2000-01-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 29410, Application US/11097143
Publication No. US20050208558A1
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig
APPLICANT: et al.
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: DROSOPHILA GENES.
FILE REFERENCE: CL000728
FILE REFERENCE: CL000728
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Best Local Similarity
Matches 6; Conserv
                                                                                                                                                          SOFTWARE: FABLSEQ for Windows Version SEQ ID NO 29418 LENGTH: 1352
                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 60/184,831 PRIOR FILING DATE: 2000-02-24
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NAME/KEY: misc feature
LOCATION: (399)..(399)
                                                                                                                        ORGANISM: DROSOPHILA
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OTHER INFORMATION: Xaa =
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OTHER INFORMATION: Xaa
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LOCATION: (671)..(671)
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                     Conservative
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                                    62.1%;
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Pred. No. 4.3e+02;
Mismatches :
                                    Score 41; DB 6;
Pred. No. 7.2e+0;
                     Mismatches
          )B 6,
/.2e+02;
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RESULT 13
US-10-424-599-182764
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US-10-425-115-319649
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                                                                                                                                                                                                                      APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REPERENCE: 38-21(5322)B
FILE REPERENCE: 38-21(5322)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 319649
LENGTH: 78
                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 319649, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
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SEQ ID NO 182764
LENGTH: 50
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                                                                    Query Match
Best Local Similarity
Matches 6; Conser
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Best Local
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TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5323)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
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                                                                                                                                                       OTHER INFORMATION: Clone ID: MRT4577_54590C.1.pep
                                                                                                                                                                          ORGANISM: Zea mays FEATURE:
                                                                                                                                                                                                             TYPE: PRT
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Local Similarity 66.7%;
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                                   1 GPWELVGYF 9
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Zhou Yihua
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 GPWVLAGWE
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                                                                                   66.7%;
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Pred. No.
                                                                    Score 40; DB 4; Length 78; Pred. No. 73; 1; Mismatches 2; Indels
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RESULT 15 US-10-477-527-21 ; Sequence 21, Application US/10477527 ; Publication No. US20040171807A1

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GENERAL INFORMATION:
APPLICANT: The Trustees of the University of Pennsylvania
APPLICANT: Gao, Guangping
APPLICANT: Gao, Guangping
APPLICANT: Wilson, James M.
TITLE OF INVENTION: Method for Rapid Screening of Bacterial Transformants and Novel S
TITLE OF INVENTION: Adenovirus Proteins
FILIS REFERENCE: UPN-NASSOPCT
CURRENT APPLICATION NUMBER: US/10/477,527
CURRENT FILING DATE: 2003-11-21
PRIOR APPLICATION NUMBER: US 60/300,501
PRIOR APPLICATION NUMBER: US 60/300,501
PRIOR APPLICATION NUMBER: US 60/300,501
PRIOR APPLICATION NUMBER: US 60/385,632
PRIOR APPLICATION NUMBER: US 60/385,632
PRIOR APPLICATION NUMBER: US 60/385,632
PRIOR APPLICATION PRIOR 2003-06-04
NUMBER OF SEQ ID NOS: 41
SEQ ID NO 21
LENGTH: 146
TYPE: PRT
ORGANIAM: Chimpanzee C68 adenovirus protein
PEATURE:
NAMES/KEY: MISC FEATURE
LOCATION: (62) - (62)
OTHER INFORMATION: Xaa can be any amino acid
US-10-477-527-21
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Search completed: December 4, 2005, 04:37:29 Job time : 79.8333 secs
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                                                                                                        1 GPWBLVG 7
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101 GPWEVVG 107
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Minimum DB seq length: 0
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Listing first 45 summaries
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Perfect score:
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Gapop 10.0 , Gapext 0.5
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Issued Patents AA:*

1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*

2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                    572060 seqs, 82675679 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 GPWELVGYFDS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GenCore version
Copyright (c) 1993 - 2005
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Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	80	ID	Description
, ₁	41	62.1	12	<u>, _                                   </u>	-08-264-093-	17, App
ωĸ	ა გ 1	59.1	274	N F	US-09-902-540-14253	Sequence 14253, A
4	38	57.6	332	N	-09-561-763-5	
σ.	38	7	332	N	-09-431-367B	Sequence 5, Appli
6	ა 8	7	493	N	-09-949-016-1	æ
7	38	.7	1207	N	-09-976-594-	
œ	37		427	N	-09-902	e 15
9	37		484	N	US-09-543-681A-6615	Sequence 6615, Ap
10	36	54.5	132	N	US-09-311-021-162	Sequence 162, App
11	36		140	N	US-09-698-341-29	Sequence 29, Appl
12	36		174	N	US-09-902-540-13916	e 1391
13	36		194	μ	-08	e 15,
14	36		194	_	US-08-260-202A-24	O
15	36		194	μ.	US-08-017-114-15	15,
16	36	•	194	_	US-08-017-114-17	Sequence 17, App.
17	36	4.	194	N	US-08-505-307-15	
18	36		194	N	US-08-505-307-17	17,
19	36	4.	194	N	US-09-609-151A-15	Sequence 15, Appl
20	36	Α.	194	N	US-09-609-151A-17	17,
21	36	4	194	4	PCT-US94-02034-15	15,
22	36	4	194	4	PCT-US94-02034-17	17,
23	36	4	206	N	US-09-902-540-16467	1646
24	36	4	235	N	09-252-991A-	æ
25	36	Α.	266	N	-09-252-991A	æ
26	36	4	321	N	-09-134-000C-	Sequence 3783, Ap
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45	44	43	42	41	40	39	38	37	36	35 5	34	33	32	31	30	29
35	35	35	35	35	35	35	35	36	36	36	36	36	36	36	36	36
53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
166	166	160	160	142	99	61	61	5532	3177	1542	797	792	751	729	710	589
N	N	N	N	N	N	N	ຎ	N	۳	N	N	N	N	N	N	N
US-09-303-518D-886	US-09-302-626B-52	US-10-389-532-7	US-09-668-673B-7	US-09-902-540-13948	US-09-390-134B-45	US-09-333-729A-5	US-08-978-741-3	US-09-914-286-6	US-08-477-451-4	US-09-949-016-9215	US-09-994-192-4	US-09-994-192-2	US-09-252-991A-22770	US-10-104-047-3450	US-09-518-550-28	US-09-489-039A-8395
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
886, App		7, Appli	٠,	13948, A		5, Appli	3, Appli	6, Appli	4, Appli	9215, Ap	4, Appli	2, Appli	22770, A	3450, Ap	-	8395, Ap

## ALIGNMENTS

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RESULT 1
US-08-264-093-17
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                                                                                                                                                                   TOPOLOGY: US-08-264-093-17
                                                                                                                                                                                                                                           CLASSIFICATION: 536
PRIOR APPLICATION DATA: No. 563
ATTORNEY/AGENT INFORMATION:
NAME: Lake, James R.
REGISTRATION NUMBER: 31081
REFERENCE/DOCKET NUMBER: NOVO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 868-1482
TELEPHONE: (416) 362-0823
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17, Application US/08264093 Patent No. 5639863
                                                                                  Query Match
Best Local Similarity
Matches 6; Conservat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: Canada
ZIP: M5H 2J7
ZIP: M5H 2J7
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.4 Mb storage
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS-DOS 6.00
SOFTWARE: ASCII Editor
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/264,093
FILING DATE:
ETILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Michael D. Dan
TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES SPECIFIC TO
TITLE OF INVENTION: CELL CYCLE-INDEPENDENT GLIOMA SURFACE
TITLE OF INVENTION: ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: not applicable
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: 2300 Richmond-Adelaide C
STREET: 101 Richmond Street West
CITY: Toronto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: Ontario
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE:
1 GPWELVGYFD 10
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2 GVWDLLNYFD 11
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2300 Richmond-Adelaide Centre
                                                                              62.1%; Score 41; DB 1; ilarity 60.0%; Pred. No. 0.51; Conservative 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                     NOVOP/106A/7551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5639863 applicable
                                                                                     2
                                                                                                                              Length 12;
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US-09-902-540-14253
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US-08-264-093-3
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APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT APPLICATION NUMBER: 60/217,883
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 14253
LENGTH: 274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPAX: (416) 868-1482
TELEPAX: (416) 362-0823
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 121 amino
                                                                                                                                                                                                                                                                                                  Sequence 14253, Application US/09902540 Patent No. 6833447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 62.1%;
Best Local Similarity 60.0%;
Matches 6; Conservative
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Patent No. 5639863
GENERAL INFORMATION:
APPLICANT: Michael D. Dan
                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC COMPUTER: MS-DOS
OPERATING SYSTEM: MS-DOS
SOFTWARE: ASCII Editor
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/(
FILING DATE:
FILING DATE:
FILING DATE: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 536
PRIOR APPLICATION DATA: No. 5639863 applicable ATTORNEY/AGENT INFORMATION:
NAME: Lake, James R.
REGISTRATION NUMBER: 31081
REFERENCE/DOCKET NUMBER: NOVOP/106A/7551
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: M5H 2J7
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.4 Mb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Ridout & Maybee
STREET: 2300 Richmond-Adelaide Centre
STREET: 101 Richmond Street West
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES SPECIFIC TO TITLE OF INVENTION: CELL CYCLE-INDEPENDENT GLIOMA SURFACE TITLE OF INVENTION: ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: amino acid
STRANDEDNESS: not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Toronto
STATE: Ontario
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GPWELVGYFD 10
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linear
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Pred. No. 6.
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RESULT 4
US-09-561-763-5
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                                                                                                                                                                                                                                                                                                                                                                                                             US-09-431-367B-5
                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/431,367B
CURRENT FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: 09/259,951
PRIOR FILING DATE: 1999-03-01
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: CURTIE, ROTY A.J.
TITLE OF INVENTION: NOVEL POTASSIUM CHANNEL MOLECULES AND USES THEREFOR FILE REFERENCE: MNI-074CP
                                                                                                                                                                                                                                                                                                                                                                    sequence 5, Application US/09431367B
Patent No. 6670149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
Matches 7; Conserva
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SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION: APPLICANT: Curtis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 66.7
Matches 6; Conservative
                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: CUTTIS, ROTY A.J. et al.
TITLE OF INVENTION: NOVEL POTASSIUM CHANNEL MOLECULES AND USES THEREFOR
FILE REFERENCE: MNI-074CP2
CURRENT APPLICATION NUMBER: US/09/561,763
CURRENT FILING DATE: 200-04-29
PRIOR APPLICATION NUMBER: 09/431,367
PRIOR APPLICATION NUMBER: 09/431,367
PRIOR FILING DATE: 01-11-1999
PRIOR FILING DATE: 01-03-1999
PRIOR FILING DATE: 01-03-1999
NUMBER OF SEQ ID NOS: 12
CONTWARDE OF SEQ ID NOS: 12
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                                                                                                                                           TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                           ENGTH: 332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 332
                                                              Local Similarity nes 7; Conserv
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99
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                              1 GPWELVGYF 9
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GRWELVGSF 107
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                                                              Conservative
                                                                            57.6%;
77.8%;
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77.8%;
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66.7%;
                                                              ; Score 38; DB;
; Pred. No. 72;
0; Mismatches
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 38; DB
Pred. No. 72;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                               Length 332,
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                                                             Gape
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RESULT 6

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US-09-949-016-10836
                                                                                                US-09-902-540-15261
                                                                                                                 RESULT 8
                                                                                                                                                                                                                                                                                                                         JS-09-976-594-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Furness, Michael
APPLICANT: Buchbinder, Jenny
APPLICANT: Buchbinder, Jenny
TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
FILE REFERENCE: PA-0041 US
CURRENT APPLICATION NUMBER: US/09/976,594
CURRENT FILING DATE: 2001-012
PRIOR APPLICATION NUMBER: 60/240,409
PRIOR FILING DATE: 2000-10-12
NUMBER OF SEQ ID NOS: 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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SEQ ID NO 10836
Sequence 15261, Application US/
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PERL Program
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Application US/09976594
Patent No. 6673549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                    Query Match
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CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 207012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/231,498 PRIOR FILING DATE: 2000-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: CL001307
                                                                                                                                                                                                                                                                                                                                 FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. 6673549 1863336CD1
                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 1207
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                                                                              Application US/09902540
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77.8%;
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60.0%;
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Pred. No. 1.1e+02
                                                                                                                                                                                                                                                                  Score 38; DB 2; Length 1207; Pred. No. 3.1e+02;
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; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-6615
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US-09-543-681A-6615
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PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 15261
LENGTH: 2007-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: GARY BRETON
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABII
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 6615
LENGTH: 484
        APPLICANT: Wong, Gordon G.
APPLICANT: Clark, Hilary
APPLICANT: Fechtel, Kim
APPLICANT: Fechtel, Kim
APPLICANT: Genetics Institute, Inc.
APPLICANT: Genetics Institute, Inc.
TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
FILE REFERENCE: GI 6300-11A
CURRENT APPLICATION NUMBER: US/09/311,021
CURRENT APPLICATION NUMBER: US/09/311,021
CURRENT FILING DATE: 1999-05-13
NUMBER OF SEQ ID NOS: 268
SOPTWARE: Patentin Ver. 2.0
SEQ ID NO 162
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Best Local Similarity 66.7
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                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
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Best Local Similarity
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APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT ORGANISM: Myxococcus xanthus
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LENGTH:
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Pred. No.
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Pred. No. 1.5e+02;
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ORGANISM: Homo sapiens

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                  Query Match
Best Local Similarity
Thes 6; Conserve
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, NAME/KEY: UNSURE
; LOCATION: (92)..(92)
; OTHER INFORMATION: X =
US-09-698-341-29
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US-09-698-341-29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: Page 140
                                                                                                                                           APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10(1.5849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 13916
LENGTH: 174
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Best Local Similarity
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Best Local Similarity
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                                                                                                  ORGANISM: Myxococcus xanthus -09-902-540-13916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Connie, Hansen
TITLE OF INVENTION: Compositions and Methods Utilizing DNA Polymerases
FILE REFERENCE: 25436/1560
CURRENT APPLICATION NUMBER: US/09/698,341
CURRENT FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: 60/162,600
PRIOR FILING DATE: 1999-10-29
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   5 LVGYFDS 11
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Hurlbut Hogrefe, Holly
Connie, Hansen
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85.7%;
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                                                Score 36;
Pred. No.
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Pred. No.
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Pred. No.
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                                                DB 2;
81;
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                                 Indels
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US-08-260-202A-15
                                             Sequence 24, Application US/08260202A
PATENT NO. 5573910

GENERAL INFORMATION:
APPLICANT: Deretic, Vojo
APPLICANT: Martin, Daniel W.
TITLE OF INVENTION: DESCUDING OF CONVERSION TO MUCOIDY IN
TITLE OF INVENTION: DESCUDINGNAS AERUGINOSA INFECTING CYSTIC FIBROSIS PATIENTS
NUMBER OF SEQUENCES: 34
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Matches 5; Conserv
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GENERAL INFORMATION:
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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,202
FILING DATE: 15-UN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/017,114
PRICHECTOR TO THE PROPRIATION:
NAME: HOGGINS, Daniel S.
REGISTRATION NUMBER: 31,026
REGISTRATION NUMBER: UTSK:221\H
TELECOMMUNICATION INFORMATION:
THIEPHONE: (512) 418-3000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/260,202A
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APPLICANT: Martin, Daniel W.
TITLE OF INVENTION: DETECTION OF CONVERSION TO MUCOIDY IN
TITLE OF INVENTION: PSEUDOMONAS AERUGINOSA INFECTING CYSTIC FIBROSIS PATIENTS
                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: (512)
ADDRESSEE:
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TOPOLOGY: li
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ZIP: 77210-4433
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STATE: TX
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Arnold, White & Durkee O. Box 4433
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Pred. No. 91;
1; Mismatches
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Best Local Similarity 71.4
Matches 5; Conservative
COMPUTER READABLE FORM:

MEDIUM TYPE; Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTMARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/017,114

FILING DATE: 19930212

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: HODGINS, Daniel S.

REGISTRATION NUMBER: 31.026

REFERENCE/DOCKET NUMBER: UTSK:205/HOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 15, Application US/08017114 Patent No. 5591838
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ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIA PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/260,202A
FILING DATE:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,202
FILING DATE: 15-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/017,114
PRIOR APPLICATION NUMBER: US 08/017,114
FILING DATE: 12-FEB-1993
ATTORNEY/AGENT INFORMATION:
NAME: HOGGINS, Daniel S.
REGISTRATION NUMBER: 31,026
REFERENCE/DOCKET NUMBER: UTSK:221\HOD
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
APPLICANT: Deretic, Vojo
APPLICANT: Martin, Daniel W.
TITLE OF INVENTION: DETECTION OF CONVERSION TO MUCOLDY IN
TITLE OF INVENTION: PSEUDOMONAS AERUGINOSA INFECTING CYSTIC FIBROSIS PATIENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (512) 474-7577
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 194 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, W
                                                                                                                                                                                                                                                                                                                                                           STREET: P. O. CITY: Houston STATE: Texas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: 1i
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                                                                                                                                                                                                                                                                                                                                                                                                          Box 4433
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                                                                                                                         US-08-017-114-15
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TELEPAX: 512/474-7577
TELEX: N/A
INFORMATION FOR SEQ ID NO: 15
SEQUENCE CHARACTERISTICS:
LENGTH: 194 amino acids
TYPE: AMINO ACID
                                                         Query Match 54.5%;
Best Local Similarity 71.4%;
Matches 5; Conservative
                                                                                                                                        MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                      STRANDEDNESS: single TOPOLOGY: linear
81 GPWRMVG 87
                            1 GPWELVG 7
                                                                            Score 36; DB 1;
Pred. No. 91;
                                                            Mismatches
                                                            1; Indels
                                                                                           Length 194;
                                                            0;
                                                            Gaps
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Search completed: December 4, 2005, 04:09:43
Job time: 23.6042 secs

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Maximum DB
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Maximum Match 100%
Listing first 45 summaries
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   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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seq length: 2000000000
   protein search, using sw model
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Match
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77.318 Million cell updates/sec
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1: uniprot_sprot:*
2: uniprot_trembl:*
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   GPWELVGYFDS 11
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   Q8TJV9_METAC
Q8D959_VIBVU
Q7MLB3_VIBVY
Q8Q061_METMA
Q8KHK7_PSEAE
Q8KHK7_PARATH
Q7UND8_RHOBA
Q4KEF0_PSEF5
                                                                                                                                    Q5PKKI SALPA
Q63NS3 BURPS
Q4K719 PSEF5
Q7UYR6 RHOBA
YP74 CAEEL
Q5WRUI CAEEL
Q7488B GEOSL
Q6K1T5_ORYSA
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Q82M58_STRAW
Q5NQ32_ZYMMO
WECA_SALTI
Q51H40_BACFN
Q64X27_BACFR
Q66X27_BBHA
GCKR_XENLA
GSKA5_THET8
Q65XA5_THET8
Q65XA5_THET8
Q65XA5_MYCTU
Y2316_MYCTU
Y2315_MYCBO
Q9V5J7_DROME
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08732
05ng32
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063n53
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071b3
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Q4kef0
Q29313
Q51h40
Q64xz7
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WELVGYFDS	ilarity Conserv	GO; GO:0003213; F:Claimporte: ACCEVITY, LEA. GO; GO:0006810; P:transport; IBA. InterPro; IPR000515; BPD_transp. Pfam; PF00528; BPD_transp_1; 1. PROSITE; PS50928; ABC_TMI; 1. Complete proteome; Sugar transport; Transmembi SEQUENCE 279 AA; 30335 MW; 886063385E8F3BE	permease 128; CAJ ; T35791 021; C:: 020; C:: 351; F::	"Complete genome sequence coelicolor A3(2)."; Nature 417:141-147(2002)i- FUNCTION: Part of a bi Probably responsible if Probably responsible if the membrane (By similatine under the coefficient of SUBCELLULAR LOCATION: -i- SUBCELLULAR LOCATION: -i- SUMCIARITY: Belongs to	(1)	UTIT 1  858 STRCO  087858;  087858;  01-NOV-1998 (TrEMBLrel. 08,  01-NOV-1998 (TrEMBLrel. 26,  Putative transmembrane sugas  OrderedLocusNames=SC06603; C  Streptomyces coelicolor:  Bacteria; Actinobacteria; Ac  Streptomycineae; Streptomyce	000	66666666666666666666666666666666666666
11	68. 77. vative	transp 5; BPD trans trans trans Sugar 3033	119796 1. integr nembra	sequence "; 7(2002). t of a b onsible (By simi OCATION: telongs t	M145; M145; M145; Chater K.F., James K.D., James K.D., Leman A., Bro leser A., Gobl fieser T., Iaa E., Rajandre mnders D., Sh stzorrek A.,	INARY  Irel.  Irel.  Irel.  Irel.  Irel.  Irel.  Irel.  Irel.  Irepto	319 323 392	1370 2581 122 146 206 207 208 210 210 282
	8 2 # #	5 H	ne;	e of bind for lar ilar ilar ilar	=120 , Ha rown ble Lar) Lar)	. 08, C 08, C 08, L 26, L 26, L 303; OR . C Omycet		00000000000
	Score 45 Pred. No 1; Mismal	r IEA. insp. ; 1. L. l. ansport;	-; Genc co membr IEA. cer acti	ing-pro	00953 erder rris s., A., F A., F M.A. odwar	Plast trast trast inol	Q4ZPN4 Q4INB2 Q8LRL7 Q8LRL7	Q7KQX6_DROME Q7T7T5_9VIRU Q8EB57_SHEON Q8UY74_9ADEN Q6QP97_9ADEN Q6QP93_9ADEN Q6QPG9_9ADEN Q6QPG9_9ADEN Q6HL66_9ADEN Q8BEL66_ADEOA Q8BEL66_PADEOA Q8BEL66_PADEOA
	45; DB No. 25; matches	Trans:	mic_DNI ane; II vity; II	model actinomyce rotein-dependent translocation of translocation of l membrane protein-de	DOI=10 Tarraga E., Que andra ( algo J urphy I urphy I Rutheri quares		PN4_PSESY NB2_GIBZE RL7_PETHY ALIGNMENTS	DROME 9VIRU SHEON 9ADEN 9ADEN 9ADEN 9ADEN 9ADEN 9ADEN 9ADEN PHOLL PSESM
	H	Y, ABA. 'ransmembrane; 385E8F3BFA CRC	IEA. IEA.	73 7 7	.1038/ all M.M ail M.M G., Ch ., Horn L.D., ( ford K R., S Barrel	279 AA.  uence update) otation update rt protein. SCBA6.24; eridae; Actine Streptomyces.		
	Length; Inde				417141 A., Cha A., Ki en C.W en C.W Oliver Oliver M., R quares 1 B.G.	e) ate) inomyc		
	gth 279; Indels	Transport 54;		ი დ <u>ე</u> ე	a; llis c eser h eser h K., Col K., C utter S., T	e) ate) inomycetales;	Q4zpn Q4inb Q8lrl	Q7kqx6 Q7t7t5 Q8eb57 Q8eb57 Q8uy74 Q6qp97 Q6qpd3 Q6qpd3 Q6qpb9 Q6h1b6 Q8be16 Q87xq4
	0,	<del>.</del>		<b>9</b> 9 9 9	lis G.L., ser H., collins M., Collins M., Howarth S., coveril tter S., S., Taylor Parkhill	<del>.</del>	14 pse 12 gik 17 pet	6 drosop 5 hetero 7 shewar 4 simiar 7 simiar 19 simiar 19 simiar 19 simiar 16 human 16 human 17 pooto
	Gaps			tem. across ity).	G X S.		pseudomonas gibberella petunia hyb	drosophila heterosigma shewanella simian aden simian aden simian aden simian aden ohuman adeno photorhabdu pseudomonas
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RESULT 3
Q5NQ32 ZYMMO
ID Q5NQ32 ZYMMO
AC Q5NQ32;
DT 01-FEB-2005 (T
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Best Local S
Matches 7
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Q82M58;
Q1-JUN-2003 (
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SEQUENCE
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Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Streptomycinae; Streptomycetaceae; Streptomyces.
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                                                          01-FEB-2005 (TrEMBLrel. 29, Created)
01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
01-FEB-2005 (TrEMBLrel. 29, Last annotation update)
Polyribonucleotide nucleotidyltransferase (EC 2.7)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    microorganism Streptomyces avermitilis.";
Nat. Biotechnol. 21:526-531(2003).
-!- FUNCTION: Part of a binding-protein-dependent
Probably responsible for the translocation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;
MEDLINE=22608306; PubMed=12692562; DOI=10.1039/nbt820;
Ikeda H., Ishikawa J., Hanamoto A., Shinose M., Kikuchi H.,
Sakaki Y., Hattori M., Omura S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
STRAIN-MA-4680 / ATCC 31267 / NCIMB 12804 / NRIL 8165;
MEDLINE-21477403; PubMedel1572948; DOI=10.1073/pnas.211433198;
Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C.,
Shinose M., Takahashi Y., Horikawa H., Nakazawa H., Osonoe T.,
Shinose M., Takahashi Y., Horikawa H., Nakazawa H.,
Kikuchi H., Shiba T., Sakaki Y., Hattori M.;
"Genome sequence of an industrial microorganism Streptomyces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   metabolites.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2
_STRAW
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i; BA00030; BAC69513.1; -; Genomic_DNA.
G0:0016021; C:integral to membrane; IEA.
G0:0016020; C:membrane; IEA.
G0:0005351; F:sugar porter activity; IEA.
G0:0005351; F:transporter activity; IEA.
G0:0005310; P:transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the membrane (By similarity).
SUBCELLULAR LOCATION: Integral membrane protein (By similarity SIMILARITY: Belongs to the binding-protein-dependent transport
                                                                                                                                                                                                                                                                                                                                                     171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pro; IPR000515; BPD_transp.
PF00528; BPD_transp_1; 1.
TE; PS50928; ABC_TM1; 1.
ete proteome; Transmembrane; Transport
NCE 290 AA; 31323 MW; 92650429419A:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 7; Conser
                                                                                                                                                                                                                                                                                                                                                       WMLIGYFDS
                                                                                                                                                                                                                                                                                                                                                                                                      MELVGYFDS
           mobilis.
                                      OrderedLocusNames=ZMO0549
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Last annotation update)
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Pred. No. 26;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92650429419A35B9 CRC64;
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26;
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104 / NRRL 8165;
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RESULT 4
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Pfam; PF03726; PNPase; 1.
Pfam; PF01138; RNase_PH; 2.
Pfam; PF03725; RNase_PH_C; 2.
Pfam; PF00575; S1; 1.
PIRSF; PIRSF005499; PNPase; 1.
SMART; SM00322; KH; 1.
SMART; SM00316; S1; 1.
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Q8Z386;
28-FEB-2003
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28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
Undecaprenyl-phosphate alpha-N-acetylglucosaminyl 1-phosphate
Undecaprenyl-phosphate alpha-N-acetylglucosaminyl 1-phosphate
Creation (EC 2.7.8.-) (UDP-GlcNAc:undecaprenyl-phosphate Gl
Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain Churcher C.M., Mungall K.L., Bentley S.D., Holden M.T.G., Sebainia Baker S., Basham D., Brooks K., Chillingworth T., Connerton P., Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J., Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J., Feltwell T., Hamlin N., Haque A., Hien T.T., Holroyd S., Jagels K., Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C., Quail M.A., Rutherford K.M., Simmonds M., Skelton J., Stevens K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Complete proteome; Nucleotidyltransferase; Transferase
SEQUENCE 748 AA; 81949 MW; EB8C43821F85F6DB CRC64;
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InterPro; IPRO04087; KH.
InterPro; IPRO04088; KH type_1.
InterPro; IPRO12162; PNPase.
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GO; GO:0000175; F:3'-5'-exoribonuclease activity; IEA.
GO; GO:0004654; F:polyribonucleotide nucleotidyltransferase
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0001740; F:transferase activity; IEA.
GO; GO:0006396; P:RNA processing; IEA.
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"The genome sequence of the ethanologenic bacterium Zym", "Secure 1.1" | "The genome sequence of the ethanologenic bacterium Zym", "The genome sequence of 
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NCBI_TaxID=542;
[1]
                                                                                                                                                                                     MEDLINE=21534947; PubMed=11677608; DOI=10.1038/35101607;
                                                                                                                                                                                                                 STRAIN=CT18;
                                                                                                                                                                                                                                                                                                                          Bacteria; Proteobacteria; Gammaproteobacteria;
Enterobacteriaceae; Salmonella.
                                                                                                                                                                                                                                                                                                                                                                              Salmonella typhi.
                                                                                                                                                                                                                                                                                                                                                                                                       Name=wecA; Synonyms=rfe; OrderedLocusNames=STY3637, t3379;
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PubMed=15592456; DOI=10.1038/nbt1045;
                                                                                                                                                                                                                                               NUCLEOTIDE
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J. Bacteriol. 185:2330-2337(2003).

J. Bacteriol. 185:2330-2337(2003).

I. Bacteriol. 185
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MEDLINE=22531367; PubMed=12644504;
DOI=10.1128/JB.185.7.2330.2337.2003;
Deng W., Liou S.-R., Plunkett G. III, Mayhew G.F., Rose D.J.,
Burland V., Kodoyianni V., Schwartz D.C., Blattner F.R.;
"Comparative genomics of Salmonella enterica serovar Typhi st
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; AL627279; CAD09398.1; -; Genot
EMBL; AE016845; AAO70903.1; -; Genot
InterPro; IPR012750; ECA WecA rel.
InterPro; IPR001715; Glyco_trans 4.
Pfam; PF00953; Glycos_transf 4; 1.
TIGRFAMS; TIGR02380; ECA_wecA; 1.
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Complete proteome; Glycosyltransferase;
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                                                                                    STANDARD;
41, Created)41, Last sequence update)47, Last annotation update)
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serovar Typhi strains
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NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].

STRAIN-LT2 / SGSC1412 / ATCC 700720;

MEDLINE-21534948; PubMed=11677609; DOI=10.1038/35101614;

McClelland M., Sanderson K.E., Spieth J., Clifton S.W., I
Courtney L., Porwollik S., Ali J., Dante M., Du F., Hou S
Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mu
Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhar
Waterston R., Wilson R.K.;

"Complete genome sequence of Salmonella enterica serovar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=wecA; Synonyms=rfe; OrderedLocusNames=STM3918; Salmonella typhimurium
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InterPro; IPR012750; ECA_WecA_rel.
InterPro; IPR000715; GlyCo_trans 4
Pfam; PF09953; GlyCos_transf 4; I.
TIGREPAMs; TIGR02380; ECA_wecA; 1
                                                                                                              EMBL; AF233324; AAF33469.1; -;
EMBL; AE008883; AAL22767.1; -;
EMBL; AJ002275; CAA05287.1; -;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mouslim C., Cano D.A., Casadesus J.;
"The sfix, rfe and metN genes of Salmonella typhimurium involvement in the His(c) pleiotropic response.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mol. Gen. Genet. 259:46-53(1998).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nature 413:852-856(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bacteria; Proteobacteria; Gammaproteobacteria;
                                                                                                                                                                                                                                            96
                                                                                                                                                                                                                                                             s Swiss-Prot entry is copyright. It is produ
ween the Swiss Institute of Bioinformatics
European Bioinformatics Institute. There a
                                                                                                                                                                                                                                                                                                                                                                                                                             PATHWAY: Synthesis of enterobacterial common Synthesis of lipopolysaccharide O-antigen. SUBCELLULAR LOCATION: Integral membrane prote
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COFACTOR: Magnesium and manganese (By similarity). ENZYME REGULATION: Inhibited by tunicamycin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         lipid is also an acceptor for the addition of subsequent sugar complete the biosynthesis of O-antigen (By smilarity). CAPTALYTIC ACTIVITY: UDP-N-acety1-D-glucosamine + undecaprenyl phosphate = UMP + N-acety1-alpha-D-glucosaminyldiphospho-
                                                                                                                                                                                                                                                                                                                                                                                   SIMILARITY: Belongs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      undecaprenol.
                                                                                                                                                                                                                                                                                                                                                                                                         (By similarity)
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Genomic_DNA.
Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                 glycosyltransferase
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                                                                                                                                                                                                                                         way modified
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     in ECA synthesis. This
                                                                                                                                                                                                                                                                    are no
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Mulvaney E.,
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                                                                                                                                                                                                                                                                                      gh a collaboration -
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Glycosyltransferase; Inn biosynthesis; Magnesium;

Inner membrane;

Manganese;

Potential

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ID Q63N53 BURPS P
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DT 25-CCT-2004 (T
DT 25-CCT-2004 (T
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Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            restricted serovars of Salmonella enterica that cause typhoid.";

Nat. Genet. 36:1268-1274 (2004)

R EMBL, CP000026; AAV79540.1; -; Genomic_DNA.

R GO; GO:001986; C:inner membrane; IEA.

R GO; GO:0016021; C:inner membrane; IEA.

R GO; GO:001677; F:transferase activity, transferring glycosyl...

R GO; GO:001677; F:lipid metabolism; IEA.

R GO; GO:0009103; Glycos transf 4.

R Ffam; PF00952; Ribosomal S2.

R Pfam; PF00952; RIBOSOMAL S2.1; UNKNOWN 1.

R Pfam; PF00962; RIBOSOMAL S2.1; UNKNOWN 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PubMed=15531882; DOI=10.1038/mg1470;

McClelland M., Sanderson K.E., Clifton S.W., Latreille P.,

McClelland M., Sanderson K.E., Clifton S.W., Latreille P.,

McClelland M., Sanderson K.E., Clifton S.W., Latreille P.,

McClelland M., Sanderson K.E., Clifton S.W., McLellan M.,

Harkins C.R., Wang C., Mcyen C., Berghoff A., Elliott G.,

Kohlberg S., Strong C., Du F., Carter J., Kremiski C., Layman D.,

Leonard S., Strong C., Du F., Carter J., Miner T., Minx P.,

Leonard S., Strong C., Magrini V., Nhan M., Warren W., Florea I.

Spleth J., Wilson R.K.;

Spleth J., Wilson R.K.;

Spleth J., Wilson R.K.;

"Comparison of genome degradation in Paratyphi A and Typhi, human-

"Comparison of Salmonella enterica that cause typhoid.";
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01-FEB-2005 (TrEMBLrel. 29, Last sequence update)
01-FEB-2005 (TrEMBLrel. 29, Last annotation update)
Putative undecaprentl-phosphate alpha-N-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q5PKK1
     OrderedLocusNames=BPSS0443,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              acetylglucosaminyltransferase.
Name=rfe; OrderedLocusNames=SPA3758;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Salmonella.
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WAA -> LNG (in Ref. 2).
S -> C (in Ref. 2).
; 1EDA31CB1AE2D938 CRC64;
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RESULT 8
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                                                                                                                                                                                                                                                                     PubMed=15980861; DOI=10.1038/nbt1110; PubMed=15980861; DOI=10.1038/nbt1110; Myers G.S., Paulsen I.T., Press C., Ravel J., Kobayashi D., Myers G.S., Mavrodi D., DeBoy R.T., Seshadri R., Ren Q., Madugu R., Dodson R.J. Durkin S., Brinkac L.M., Daugherty S.C., Sullivan S.A., Rosovitz M. Gwinn M.L., Zhou L., Nelson W.C., Weidman J., Watkins K., Tran K., Gwinn M.L., Pierson B., Pierson L. III, Thomashow L., Loper J.; Khouri H.M., Pierson B., Pierson L. III, Thomashow L., Loper J.; "Complete genome sequence of the plant commensal Pseudomonas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q4K719_1
Q4K719;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Atkins T., Crossman L.C., Pitt T., Churcher C., Mungall K.L., Bentley S.D., Sebaihia M., Thomson N.R., Bason N., Beacham I.R., Brown K.A., Brown N.F., Challis G.L., Cherevach I., Chillingworth T., Cronin A., Crossett B., Davis P., DeShazer D., Feltwell T., Fraser A., Hance Z., Hauser H., Holroyd S., Jagels K., Keith K.E., Maddison M., Moule S., Price C., Quail M.A., Keith K.E., Maddison M., Moule S., Price C., Quail M.A., Rabbinowitsch E., Rutherford K., Sanders M., Simmonds M., Songsivilai S., Stevens K., Tumapa S., Vesaratchavest M., Whitehead S., Yeats C., Barrell B.G., Oyston P.C.F., Parkhill J., "Genomic plasticity of the causative agent of melioidosis,"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Burkholderia pseudomallei (Pseudomonas pseudomallei).
Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
Burkholderiaceae; Burkholderia; pseudomallei group.
NCBI_TaxID=28450;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Burkholderia pseudomallei.",
Proc. Natl. Acad. Sci. U.S.A. 101:14240-14245(2004).
EMBL; BX571966; CAH37899.1; -; Genomic_DNA.
Complete proteome; Hypothetical protein.
SEQUENCE 449 AA; 49531 MW; F1618B7466D15240 CRC6
                                                                                                                                                                                 "Complete genome sequence of the p.fluorescens pf.-5.";
Nat. Biotechnol. 23:873-878(2005).
EMBL; CP000076; AAY94113.L; -; Genome SEQUENCE 231 AA; 25717 MW; A4DI
                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN-Pf-5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=220664;
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Pseudomonadaceae; Pseudomonas.
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Pseudomonas fluorescens (strain Pf-5)
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13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
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STRAIN=K96243;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Phosphoserine phosphatase, putative.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=15377794; DOI=10.1073/pnas.0403302101; Holden M.T.G., Titball R.W., Peacock S.J., Ce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      183
61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                _PSEF5 PRELIMINARY;
                                          N
                                                                                      Similarity
8; Conserv
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PAELLGYFDS
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                                       PWELVGYFDS
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                                                                                        Conservative
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75.0%;
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Pred. No.
1; Mismatc
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                                                                                                                                                                                      Genomic DNA.
A4DEA84C59107CF2 CRC64;
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RESULT 9 Q7UYR6_RHOBA

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Q7UYR6 RHOBA PRELIMINARY; Q7UYR6; 01-OCT-2003 (TrEMBLrel. 2)

OrderedLocusNames=RB426;

Hypothetical protein

(TrEMBLrel.

(TrEMBLrel.

25,

Last sequence up Created)

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RESULT 10
YP74_CAEEL
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Matches 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam; PF07635; PSCyt1; 1.
Pfam; PF07583; PSCyt2; 1.
Pfam; PF07587; PSD1; 1.
Complete proteome; Hypothetical protein.
SEQUENCE 1201 AA; 134482 MW; 7286B27735130D01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           strain 1.";

Proc. Natl. Acad. Sci. U.S.A. 100:8298-830

EMBL; BX294133; CAD71575.1; -; Genomic_DNA

GO; GO:0020037; F:heme binding; IEA.

GO; GO:0006118; P:electron transport; IEA.
                                                                                                                                                                                                                                      investigating biology.",
Science 282:2012-2018(1998).
                This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR012282; Cytochro
InterPro; IPR011444; DUF1549.
InterPro; IPR011429; PSC3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=22735913; PubMed=12835416; DOI=10.1073/pnas.1431443100; Gloeckner F.O., Kube M., Bauer M., Teeling H., Lombardot T., Ludwig W., Gade D., Beck A., Borzym K., Heltmann K., Rabus R., Schlesner H., Amann R., Reinhardt R.;
                                                                                                                                                       WormBase consortium;
Submitted (JUL-2002)
                                                                                                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                    The C. elegans sequencing consorting of the nematode C
                                                                                                                                                                                                                                                                                                                                                                          STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=6239;
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8; Conserv
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Pred. No. 2.4e+02;
0; Mismatches 3
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RESULT 11
Q5WRU1_CAEEL
ID Q5WRU1_C
RESULT 12
0748S8 GEOSL
1D Q748S8;
AC Q748S8;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Glutamate racemase (EC 5.1.1.3).
GN Name=murl; OrderedLocusNames=GSU2923;
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Matches 6
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Complete proteome; Hypothetical protein.
COMPBIAS 155 165 Cys-rich.
COMPBIAS 316 338 Lys-rich.
COMPBIAS 892 1019
SEQUENCE 177
                                                                                                                                                                                                                                                                                    Ensembl; B0228.4; Caenorhabditis elegans. WormBase; WBGene00015061; B0228.4. WormPep; B0228.40. ThrerPro; IPP010774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OSWRU1 CAEEL PRELIMINARY
OSWRU1;
25-OCT-2004 (TrEMBLrel.
25-OCT-2004 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hypothetical protein ORFNames=B0228.4;
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                                                                                                                                                                                                                           Complete proteome; Hypothetical SEQUENCE 7548 AA; 840584 MW;
                                                                                                                                                                                                                                                  Pfam; PF07002; Copine; 1. SMART; SM00327; VWA; 1.
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                                                                                                                                                                                                                                                                      InterPro; IPR010734; Copine.
InterPro; IPR002035; VWF A.
                                                                                                                                                                                                                                                                                                                                              Science
                                                                                                                                                                                                                                                                                                                                                                                The C. elegans sequencing
                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=Bristol
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                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                                                          investigating biology."
                                                                                                                                                                                                                                                                                                                                                                     'Genome sequence of the
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                                                                                                                                 7482
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U23168; AAU87832.1; -;
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Caenorhabditis.
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Last annotation updat
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Pred. No.
                                                                                                                                                                              Score 43; DB 2;
Pred. No. 1.5e+0
2; Mismatches
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8BEC3CC03D12C1C8 CRC64;
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..2e+02;
2;
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RESULT
Q6K1T5_
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HSSP; P56868; 1B74.
TIGR; GSU2923; ...
GO; GO:000881; F:glutamate racemase activity; IEA.
GO; GO:0008815; F:isomerase activity; IEA.
GO; GO:0008152; P:metabolism; IEA.
GO; GO:0009252; P:peptidoglycan biosynthesis; IEA.
InterPro; IPR001920; Asp/Glu race.
InterPro; IPR004391; Glu race.
InterPro; IPR004391; Glu race; 1.
R TIGRPAMG; TIGR00067; Glu race; 1.
R PROSITE; PS00923; ASP_GLU_RACEMASE 1; 1.
R PROSITE; PS00924; ASP_GLU_RACEMASE 2; 1.
PROSITE; PS00924; ASP_GLU_RACEMASE 2; 1.
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Best Local S
Matches 6
Query Match
Best Local Similarity
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5 ORYSA
76KITS ORYSA PRELIMINARY; PRT; 381 AA.
Q6KITS;
Q6KITS;
Q6KITS;
Q5-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein OSUNBa0038P01.38.
Name=OSUNBa0038P01.38 cniltivar-group).
                                                                                                                                                                                 Sasaki T., Matsumoto T., Katayose Y.;
"Oryza sativa nipponbare(GA3) genomic DNA, chromosome 2,
clone:OSyNBA00389D1.",
Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AP006457; BAD22515.1; -; Genomic_DNA.
Gramose. OFFITE.
                                                                                                                                                                                                                                                                                                                                                             Oryza sativa (japonica cultivar-group).

Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

Ehrhartoidese; Oryzeae; Oryza.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Methe B.A., Nelson K.E., Eisen J.A., Paulsen I.T., Nelson W.C., Heidelberg J.F., Wu D., Wu M., Ward N.L., Beanan M.J., Dodson R.J., Madupu R., Brinkac L.M., Daugherty S.C., DeBoy R.T., Durkin A.S., Gwinn M.L., Kolonay J.F., Sullivan S.A., Haft D.H., Selengut J., Davideen T.M., Zafar N., White O., Tran B., Romero C., Forberger H. Weidman J.F., Khouri H.M., Feldblyum T.V., Utterback T.R., Van Aken S.E., Lovley D.R., Fraser C.M.;

"Genome of Geobacter sulfurreducens: metal reduction in subsurface
                                                               Hypothetical SEQUENCE 38
                                                                                                  GO; GO:0006512; P:ubiquitin cycle; InterPro; IPR001810; P-box. Pfam; PF00646; F-box; 1.
                                                                                                                                                                                                                                                                            NUCLEOTIDE
Sasaki T.,
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Geobacteraceae; Geobacter
                                                                                                                                                                   Gramene; O6K1T5;
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Science 302:19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PubMed=14671304; DOI=10.1126/science.1088727;
                                                                                                                                                                                                                                                                                                                                          TaxID=39947;
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Pred. No. 80;
2; Mismatches
Score
Pred.
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                                                             A50564C2F7224FC4 CRC64;
  No.
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    1.1e+02;
                   DB 2;
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QBD959 VIBVU

ID QBD959 VIBVU PRELIMINARY;

AC QBD959;

AC QBD959;

DT 01-MAR-2003 (TrEMBLrel. 23,

DT 01-MAR-2003 (TrEMBLrel. 24,

DT 01-MAR-2003 (TrEMBLrel. 24,

DT 01-UN-2003 (TrEMBLrel. 24,

DE Methyl-accepting chemotaxis

GN OrderedLocusNames=VV12747;

OS Vibrio vulnificus.

OC Bacteria; Proteobacteria; G

OC Vibrionaceae; Vibrio.

OX NCBI_TaxID=672;

RN 1(1)

RP NUCLEOTIDE SEQUENCE.

RC STRAIN=CMCP6;

RA Rhee J.H., Kim S.Y., Chung RA Choy H.E.;

RA Choy H.E.;

RA Choy H.E.;

Submitted (DEC-2002) to the
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ID QRIJV9 M
AC AICHAOOS
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01-MAR-2003 (TrEMBLrel. 23, L.
01-MAR-2003 (TrEMBLrel. 24, L.
01-JUN-2003 (TrEMBLrel. 24, L.
Methyl-accepting chemotaxis p
OrderedLocusNames=VV12747;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "The genome of Methanosarcina acetivorans reveals and physiological diversity.";

Genome Res. 12:532-542(2002).

EMBL; AE011076; AAM07023.1; -; Genomic_DNA.

InterPro; IPR010180; Cas_CXXC_CXXC.

TIGRFAM6; TIGR01908; cas_CXXC_CXXC; 1.

Complete proteome.

Complete proteome.

SEQUENCE 454 AA; 52893 MW; 2BBDA6A6E629B0A0 CR
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QBTJV9;
Q1-JUN-2002 (TrEMBLrel. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=C2A / ATCC 35395 / DSM 2834;
MEDLINE=21929760; PubMed=11932238; I
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OrderedLocusNames=MA3668;
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    genome sequence of Vibrio vulnificus CMCP6."; (DEC-2002) to the EMBL/GenBank/DDBJ databases
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Methanosarcina.
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Pred. No. 1.3e+02;
2; Mismatches 1
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DR HMSEP, PAD942; 1QUT.

DR HSSEP, PAD942; 1QUT.

DR GO; GO:0019866; C:inner membrane; IEA.

DR GO; GO:0016021; C:integral to membrane; IEA.

DR GO; GO:0004871; F:signal transducer activity; IEA.

DR GO; GO:0004871; F:signal transducer activity; IEA.

DR GO; GO:0004871; F:signal transducer activity; IEA.

DR GO; GO:0007165; P:signal transduction; IEA.

DR GO; GO:0007165; P:signal transduction; IEA.

DR InterPro; IPR003660; His_kin_HAMP.

DR Pfam; PF00015; MCPsignal; 1.

DR Pfam; PF00015; MCPsignal; 1.

DR PFAM; PF00015; MCPsignal; 1.

DR SMART; SM00283; MA; 1.

DR PROSITE; PS50885; HAMP; 1.

DR PROSITE; PS50885; HAMP; 1.

DR PROSITE; PS50885; HAMP; 1.

Complete proteome.

SQ SEQUENCE 578 AA; 63178 MW; 55004ADC7356DA18 CRC64;

Query Match
Best Local Similarity 75.0%; Pred. NO. 1.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps O;

DB 204 WELIGYID 211

Search completed: December 4, 2005, 04:52:22

Job time: 102.375 secs
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Gapop 10.0 , Gapext 0.5
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Copyright (c) 1993 - 2005 Compugen Ltd.
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45	44	43	42	41	40	39	38	37	36	35 5	3.4 4	33	32	31	30
37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
642	601	502	468	462	426	413	400	365	349	277	276	241	235	226	217
N	_	N	N	N	N	2	N	N	N	N	N	N	N	N	N
G69371	A64222	S50519	T48615	I58179	T08550	G95965	AF0291	S61636	T31856	AF3216	A95309	T39330	T44679	A87664	A82491
acetyl-CoA synthet	heat shock protein	hypothetical prote	hypothetical prote	5HT3 receptor subu	choline monooxygen	conserved hypothet	probable drug resi	hypothetical prote	hypothetical prote	ABC transporter, m	probable ABC trans	probable 60S acidi	tein	hypothetical prote	frnB protein VCA01

#### ALIGNMENTS

probable transmembrane sugar transport protein - Streptomyces coelicolor C;Species: Streptomyces coelicolor C;Dace: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 09-Jul-2004 C;Accession: T35791

K.J.; Harris, D.;

; Parkhill, J.; Barrell, Library, July 1998

B.G.; Rajandream, M.A.

RESULT 1 T35791

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RESULT 2
AD0922
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submitted to the EMBL Data
A;Reference number: Z21570
                                                                                                                                                                                                                                                                                             probable undecaprenyl-phosphate alpha-N-acetylglucosaminyltransferase STY3637 [imported] C;Species: Salmonella enterica subsp. enterica serovar Typhi A;Note: this species has also been called Salmonella typhi C;Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 03-Feb-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Gene: SCOEDB:SC8A6.24
C;Superfamily: maltose
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A;Molecule type: DNA
A;Residues: 1-279 <SEB5
                                                                                               A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-367 <PAR>
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R;Parkhill, J.; Doug
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Matches
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Query Match
Best Local Similarity
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nes 7; Conserv
                                                STY3637
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on, P.; Cronin,
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                                                                                 UNIPARC:UPI000005A58F; GB:AL513382; PIDN:CAD09398.1; PID:g16504516;
66.7%;
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in, A.;
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Pred. No. 2.8;
1; Mismatches
Score 44;
Pred. No.
                                                                                                                                                                                                                                                K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher, Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar,
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hypothetical protein At2946220 [imported] - Arabidopsis thaliana (Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change C;Accession: B64900
                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; Sykes, S. Smith, H.O.; Woese, C.R.; Venter, J.C.
A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaec A;Reference number: A69250; MUID:98049343; PMID:9389475
A;Accession: E69368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.B.; Ketchum, K.A.; Dodson.; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, E.F. Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L. Nature 390, 364-370, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               glutamine synthetase (glnA) homolog - Archaeoglobus fulgidus
C;Species: Archaeoglobus fulgidus
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
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E69368
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C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change
C;Accession: T29043
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A;Cross-references: UNIPROT:Q8IG61; UNIPARC:UPI00000851C9; EMBL:U23168; PIDN:AAC38806.1
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Best Local
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Best Local :
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S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.;
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                                 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
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Town, C.D.; Fujii,
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  C.Y.;
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R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Hc Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S. Nature 393, 537-544, 1998

Nature 393, 537-544, 1998

A;Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G. A;Title: Deciphering the biology of Mycobacterium tuberculosis from the complet A;Reference number: A70500, MUID:98295987, PMID:9634230

A;Accession: G70704
                                                                                                                                                                                                                                                                                                 hypothetical protein Rv2326c - Mycobacterium tuberculosis (strain H37RV) C;Species: Mycobacterium tuberculosis C;Date: 17-Jul-1998 #sequence revision 17-Jul-1998 #text_change 09-Jul-2004 C;Accession: G70704
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A;Title: Cloning and expression of a Xenopus liver cDNA encoding A;Reference number: S48729; MUID:95010134; PMID:7925465
A;Accession: S48729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       glucokinase regulator - African clawed frog)
C;Species: Xenopus laevis (African clawed frog)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
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A;Title: Sequence and analysis of chromosome A;Title: Sequence A84420; MUID:20083487; PM
A;Cross-references: UNIPROT:P71886; UNIPARC:UPI000013BA74; GB:Z79702; GB:AL123456; NID.
A;Experimental source: strain H37Rv
                                             A; Molecule type: DNA
A; Residues: 1-697 < COL>
                                                                                      A; Status: preliminary; nucleic acid sequence not shown; translation
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A; Residues: 1-619 < VEI>
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A; Residues: 1-550 <STO>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
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70.0%;
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Pred. No.
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PMID:10617197
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                                                                                                                                                           .; Barrell, B.G. from the complete
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Query Match Best Local Similarity

62.1**%**; 66.7**%**;

Score Pred.

No.

36;

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Length 697;

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A;Cross-references: UNIPROT:032971; UNIPARC:UPI00000BED0E; EMBL:Z98741; PIDN:CAB11403.1 A;Experimental source: cosmid B22 C;Genetics:
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A;Molecule type: DNA
A;Residues: 1-724 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nature 409, 1007-1011, 2001
A;Authors: Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.;
A;Title: Massive gene decay in the leprosy bacillus.
A;Reference number: A86909; MUID:21128732; PMID:11234002
A;Accession: B87015
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D84824
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R;Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Species: Mycobacterium leprae
C;Date: 21-Jan-2000 #sequence_revision 21-Jan-2000
C;Accession: T44905
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C;Accession: B87015
probable DNA-directed RNA polymerase II subunit [imported] - Arabidopsis thaliana (Species: Arabidopsis thaliana (mouse-ear cress) (Species: Arabidopsis thaliana (mouse-ear cress) (Spate: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004 (Spate: 02-Feb-2001 #text_change 09
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A; Accession: T44905
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57;
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57;
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A.; Hamlin, N.;
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     A;Gene: PH1107
C;Superfamily: glycosidase,
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A;Title: Complete sequence and gene organization of the genome of a h A;Reference number: A71000; MUID:98344137; PMID:9679194
A;Accession: D71951
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              probable plasma membrane proton ATPase [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 31-Dec-2004
C;Accession: F84637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: DNA
A; Residues: 1-888 <STO>
A; Cross-references: UNI
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A; Accession: D84824
                                                                               A,Status: preliminary; nucleic acid sequence not shown; tra
A;Molecule type: DNA
A;Residues: 1-299 <KAW>
A;Experimental source: strain OT3
                                                                                                                                                                                                                                                                                                                                           hypothetical protein PH1107 - Pyrococcus horikoshii
C;Species: Pyrococcus horikoshii
C;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998
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A; Residues: 1-931 <STO>
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A; Map position: 2
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                                                                                                                                                                                                                                                                                                                           C; Accession: D71051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C; Superfamily: Na(+)/K(+)-transporting ATPase alpha chain; ATPase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Map position:
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                                         A;Note: this accession C;Genetics:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: UNIPARC:UPI000016237B; GB:AE002093; NID:g4572678; PIDN:AAD23893.1;
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les 6; Conserv
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                                                             strain OT3
replaces an
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PH1107 type
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Pred. No.
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                                                                                                                                                                        sequence not shown; translation
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                                                                                                           GB:AP000005; NID:g3236132;
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Kushida,
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RESULT 15
S28476
rfbL protein VC0249 [similarity] - Vibrio cholerae (strain N16961 serogroup 01) C;Species: Vibrio cholerae (c;Species: Vibrio cholerae C;Date: 12-Mar-1993 #sequence_revision 12-Mar-1993 #text_change 09-Jul-2004 C;Accession: S28476; H82346
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                                                                                                                                                                                                                                                                                                                                                                                                     A;Title: Cloning, sequencing and expression of the Schwanniomyces occidentalis NADP-depe
A;Reference number: S17907; MUID:92035089; PMID:1934128
A;Accession: S17907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R; de Zoysa, P.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             glutamate dehydrogenase (NADP) (EC 1.4.1.4) - yeast (Schwanniomyces occidentalis var. C;Species: Schwanniomyces occidentalis var. occidentalis C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 05-Oct-2004 C;Accession: S17907
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A;Residues: 1-320 <LAN>
A;Cross-references: UNIPROT:O61975; UNIPARC:UPI000080228; EMBL:AF068718; PIDN:AAC17768
A;Experimental source: strain Bristol N2; clone R01B10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Accession: T33303
R;Langston, Y.; Beck, C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypothetical protein R01B10.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Spacies: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
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A;Molecule type: DNA
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A; Accession: T33303
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A;Description: The sequence of C. elegans cosmid R01B10.
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66.7%;
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Query Match
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C;Superfamily: 4-coumarate-CoA ligase; acetate-CoA ligase homology
F;47-468/Domain: acetate-CoA ligase homology <ACL>
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A;Residues: 1-471 <HEI>
A;Cross-references: UNIPARC:UPI00000D470B; GB:AE004113; GB:AE003852;
A;Experimental source: serogroup O1; strain N16961; biotype E1 Tor
C;Genetics:
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R;Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, Chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, I.; Sell 1, R.R.; Mekkalanos, J.J.; Venter, J.C.; Fraser, C.M.

Nature 406, 477-483, 2000
A;Title: DNA Sequence of both chromosomes of the cholera pathogen Vibrio cholerae.
A;Reference number: A82035; MUID:20406833; PMID:10952301
A;Status: preliminary
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submitted to the EMBL Data Library, May 1991
A;Reference number: $28467
A;Accession: $28476
A;Molecule type: DNA
A;Residues: 1-471 <MAN>
Search completed: December 4, 2005, 04:53:34 Job time: 17.5833 secs
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;Experimental source: strain 017
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Pred. No. 54;
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H.; Dragoi, I.; Sellers, P
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Maximum Match 100%
Listing first 45 s
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Perfect score:
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1: geneseqp1980
2: geneseqp1990
3: geneseqp2000
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66
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50.576 Million cell updates/sec
  2443163 seqs, 439378781 residues
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	æ	7	0	5	4.	ω	N	-ب	Result No.
39	39	39	39	39	39	39.5	40	40	40	40	40	40	41	41 .	41	41	41	42	43	44	44	44	66	Score
59.1	59.1	59.1	59.1	59.1	59.1	59.8	60.6	60.6	60.6	60.6	60.6	60.6	62.1	62.1	62.1			w	65.2	66.7	66.7	66.7	100.0	Query Match I
233	211	166	112	103	79	511	956	931	885	477	283	146	1352	792	475	121	114	415	207	367	367	306	11	Length I
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Aag05440 Arabidops		_			Aag13553 Arabidops				_		Abm70292 Photorhab	Abp56656 Chimpanze	Abb67542 Drosophil	Adc07986 Rice prot	Abu20453 Protein e	Aar88504 VHmu for	Aao08773 Human pol	Abm89126 Rice abio	Adh12894 Francisel	Abu47877 Protein e	Abu47042 Protein e	Abu45531 Protein e	Adr38726 Mouse hea	Description

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38	39	39	39		39							39								
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AAM95055	AAG36911	AAG36912	AAG36913	ABM45273	ABM65954	AAU48754	ABG20404	ABU18890	ADT60469	AAG30759	AAG30760	ABM95054	ABB92172	AAG38799	AAG05438	AAG05439	AAG38800	AAG30761	ABG69053	AAG38801
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Aam95055	Aag36911	Aag36912	Aag36913	Abm45273	Abm65954	Aau48754	Abg20404	Abu18890	Adt 60469	Aag30759	Aag30760	Abm95054	Abb92172	Aag38799	Aag05438	Aag05439	Aag38800	Aag30761	Abg69053	Aag38801
Human rep	Arabidops	Arabidops	Arabidops	Propionib	Propionib	Propionib	Novel hum	Protein e	Plant pol			M. xanthu	Herbicida	Arabidops	Arabidops	Arabidops	Arabidops	Arabidops	Amino aci	Arabidops

### ALIGNMENTS

RESULT 1 ADR38726 antibacterial; antibody; botulinum neurotoxin type A; BoNT/A; BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; ADR38726 standard; peptide; 11 AA. Marks JD, 31-AUG-1998; 98US-00144886. 01-AUG-2002; 2002US-0400721P. 01-AUG-2003; 2003US-00632706 09-SEP-2004. Mus sp. Mouse heavy chain variable region CDR3 seqid 128 02-DEC-2004 (first entry) ADR38726; US2004175385-A1 heavy chain variable region; complementarity determining region; CDR3. (REGC ) UNIV CALIFORNIA. Amersdorfer P;

Example 3; SEQ ID NO 128; 110pp; English.

New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.

WPI; 2004-652009/63.

The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone 25, C25, C39, 1C6, 3D12, B4, IF3, huC25, A11, A22, WR1(V), WR1(T), 3-1, 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum neurotoxin type A (BoNT/A). Also described are: a polypeptide (II) comprising BoNT/A neutralising epitope having an epitope that is

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CC specifically bound by an antibody expressed by clones as mentioned in (I) C; producing (I); and a composition (III) comprising several anticombulinum neurotoxin antibodies, where each antibody is specific for a cdifferent epitope of a botulinum neurotoxin and the combination of CC antibodies shows greater toxin neutralisation than the single antibodies in surplus. The following are disclosed: a pharmaceutical composition (CC comprising (I); and a kit comprising (I). (I) is useful for neutralising CC BNWT/A antibody and for neutralising a botulinum neurotoxin which cinvolves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin and the CC combination of antibodies shows greater toxin neutralisation than the CC combination of antibodies shows greater toxin neutralisation than the CC combination pathologies associated with botulinum neurotoxin CC consoning. (I) exhibits specificity and affinity towards BOWT/A. (I) CC cenables rapid detection or diagnosis of botulism. This is the amino acid sequence of mouse heavy chain variable region complementarity determining CC region 3 (CDR3) from anti-botulinum neurotoxin antibodies.
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Best Local
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06-SEP-2001; 2001US-00948993.

25-OCT-2001; 2001US-0342923P.

08-PEB-2002; 2002US-00072851.

06-MAR-2002; 2002US-0362699P.
The invention relates to an isolated nucleic acid comprising any one of the 6213 antisense sequences given in the specification where expression of the nucleic acid inhibits proliferation of a cell. Also included are:

(1) a vector comprising a promoter operably linked to the nucleic acid
                                                                                                 Claim 25;
                                                                                                                               New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs.
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DB; ACA49401.
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Trawick JD,
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                                                                                             73455; 1766pp;
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Pred. No. 0.00019;
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                                                                                             English
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Forsyth
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RESULT 3
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Best Local
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06-SEP-2001;
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Wall
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               N-PSDB;
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                                                                                                                                                                                                                                                                                                                                       Salmomella typhimurium.
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                                                          Zamudio
Trawick
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                                                                                                                                                                                                                                                                                                                                                                       prokaryotic essential gene; cell proliferation; drug design.
                                                                                                                                        ; 2001US-00815242.
; 2001US-00948993.
; 2001US-0342923P.
; 2002US-00072851.
; 2002US-0362699P.
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69.2%;
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                                                            Ohlsen
Forsyth
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                                                              Zyskind
Xu HH;
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RESULT 4
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25-OCT-2001;
08-FEB-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Protein encoded by Prokaryotic essential gene #33404.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention relates to an isolated nucleic acid comprising any one of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        127
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2001US-00815242.
2001US-00948993.
2001US-0342923P.
2002US-00072851.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to an isolated nucleic acid comprising any one of cthe 6213 antisense sequences given in the specification where expression conference of the nucleic acid inhibits proliferation of a cell. Also included are: (CI) a vector comprising a promoter operably linked to the nucleic acid (CI) a vector comprising a promoter operably linked to the nucleic acid (CI) a host cell containing the vector (SI) the antisense containing the vector (SI) and isolated contained and is inhibited by the antisense nucleic acid; (4) an antibody capable of specifically binding the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular contiferation or the activity of a gene in an operon required for proliferation, or that has an activity against a biological pathway (CI) identifying a compound that influences the activity of cor agene on which the test compound that inhibits proliferation or the product lies or a gene on which the test compound that inhibits proliferation of an organism acts; (9) manufacturing an antibiotic; (10) profiling a compound that inhibits proliferation of an organism activity in the test compound that inhibits proliferation of an organism. The antisense nucleic acids are useful for cidentifying proteins or screening for homologous nucleic acids required for cellular proliferation of an organism. The antisense nucleic acids are useful for cidentifying proteins or screening homologous nucleic acids required cor colliferation in cells other than S. aureus, S. typhimurium, con all did not form part of the printed specification, but was obtained con a leactronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs.
                                  Immunogenic protein; protective genetic vaccine; antibacterial.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 25; SEQ ID NO 75801; 1766pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 367
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                                                                                     Francisella tularensis immunogenic protein 75, SEQ ID NO:75
                                                                                                                                                            ADH12894;
                                                                                                                                                                                             ADH12894 standard; protein;
 Francisella tularensis
                                                                                                                        25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ftp.wipo.int/pub/published
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Carr GJ,
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                      immune response;
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Forsyth
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Xu HH;
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Best Local S
Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to 100 potentially immunogenic proteins from Francisella tularensis (ADHI2820-ADHI2919) and nucleic acids encoding them (ADHI2920-ADHI3019) which may be used in vaccines. The nucleic acids may be contained within a vaccine, bacterial or plasmid vector. The finvention also relates to a pharmaceutical composition comprising the protein or the nucleic acid in combination with a pharmaceutical carrier or excipient. The proteins and nucleic acids are useful in vaccine compositions for producing a protective immune response against Francisella tularensis infection in a mammal, or for preventing ot treaxing Francisella tularensis infection in a mammal, The present sequence represents a Francisella tularensis protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New protein, useful as a vaccine for producing a protective immune response in a mammal against infection by Francisella tularensis, or preventing or treating Francisella tularensis infection in a mammal.
                                               22-JUN-2001; 2001US-0300112P.
24-AUG-2001; 2001US-0314662P.
26-SEP-2001; 2001US-0325277P.
21-NOV-2001; 2001US-0332132P.
 Kreps
                                                                                                                                                                                      Oryza sativa
                                                                                                                                                                                                                                     Rice abiotic stress responsive polypeptide SEQ ID NO:7372.
                                                                                                                                                                                                                                                               02-JUN-2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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                                                                                                              21-JUN-2002; 2002WO-US019668
                                                                                                                                      30-JAN-2003
                                                                                                                                                               WO2003008540-A2
                                                                                                                                                                                                           abiotic stress tolerance; transgenic plant; plant; cereal; agriculture
                                                                                                                                                                                                                                                                                       ABM89126;
                                                                                                                                                                                                                                                                                                            ABM89126 standard; protein; 415 AA.
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                         (SYGN )
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7; Conserva
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                        SYNGENTA PARTICIPATIONS
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 Brigge SP,
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 Cooper B,
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Pred. No.
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 Glazebrook J,
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 Goff SA,
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RESULT 7
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Matches 6
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                                                                                                          Tang
                                                                                                                                                                                                                                                                                                                     Human; cytokine; cell proliferation; cell differentiation; vaccine; peptide therapy; stem cell growth factor; haematop tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorders; arthritis; inflammation.
                     Isolated nucleic acids and polypeptides, useful for preventing diagnosing and treating e.g. leukemia, inflammation and immune disorders.
                                                                                                                                                                                                                                                                                                                                                                                        Human polypeptide SEQ ID NO
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                                                                                                                                                                                                                                                                                                                                                                                                                                             AA008773;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     responsiveness of a plant, e.g. cereal, stress, salt stress or osmotic stress.
                                                                                                                                                                28-FEB-2000;
18-MAY-2000;
                                                                                                                                                                                                          26-FEB-2001; 2001WO-US004927.
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                                                                                                                                                                                                                                                                                         Homo sapiens.
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                                                                                                                                     (HYSE-) HYSEQ INC.
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                                                                                2001-514838/56.
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                                                                  AA188704.
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                                                                                                          Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                2000US-00515126
2000US-00577409
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                growth factor; haematopoiesis;
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Claim 20; SEQ ID NO 22665; 1399pp + Sequence Listing; English

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Matches 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
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                                  Claim 8;
                                                                                         Novel monoclonal antibodies, glioma specific cell surface
                                                                                                                                                                                N-PSDB;
                                                                                                                                                                                                         WPI; 1996-058411/06
                                                                                                                                                                                                                                                                                                                                                                                         21-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                16-JUN-1995;
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                           Page 33; 53pp;
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                                  English
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Pred. No.
                                                                                         BT34/A5 and BT32/A6 - used to characterise antigens, and in the treatment of glioma.
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RESULT 9
ABUZ0453
ID ABUZ
XX ABUZ
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Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR88504-R88510 represent regions of the human monoclonal antibodies (MAb's) BT34/A5 and BT32/A6. This sequence represents the variable region of the heavy chain, subgroup mu, (VHmu) of BT34/A5. The complementarity determining regions (CDR's) of this sequence are specifically claimed. This sequence preferably has an N-terminal extension comprising the signal sequence represented in AAR88505. The BT34/A5 and BT32/A6 MAb's recognise a cell cycle independent tumour specific antigen. They also bind equally well to tumour cells in vitro regardless of their culture viability, growth characteristics, or culture density. The antibodies effectively label the tumour cells by binding to the antigen present on the cell surface. The MAb's are useful in the detection and the treatment of glioma. These MAb's are specific for glioma and show none of the cross-reactivity seen with previous antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wang
Wall
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-MAR-2001; 2001US-00815242.
06-SEP-2001; 2001US-00948993.
25-OCT-2001; 2001US-0342923P.
08-FEB-2002; 2002US-00072851.
06-MAR-2002; 2002US-0362699P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABU20453 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-JUN-2003
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DB; ACA24323.
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Trawick JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              prokaryotic essential gene;
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Carr G
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Haselbeck R,
Yamamoto R,
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49;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ohlsen
Forsyth
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Xu HH;
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The invention relates to an isolated nucleic acid comprising any one of the 213 antisense sequences given in the specification where expression of the nucleic acid inhibits proliferation of a cell. Also included are:

(1) a vector comprising a promoter operably linked to the nucleic acid encoding a polypeptide whose expression is inhibited by the antisense nucleic acid; (2) a host cell containing the vector; (3) an isolated polypeptide or its fragment whose expression is inhibited by the antisense antisense nucleic acid; (4) an antibody capable of specifically binding

New antisense nucleic acids, useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs.

Claim

SEQ ID NO

48377; 1766pp; English.

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RESULT 10
ADC07986
ID ADC07986
ID ADC077
XX ADC07
XX ADC07
XX ADC07
XX ACC
DE Rice
XX Plant
XM Carbo
KM Gene;
XX OTYZA
X
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   New plant genes encoding polypeptides having associated with the synthesis, metabolism or
                                                                                                                                                                                                                                                                                                                                                                                      22-JUN-2001; 2001US-0300112P.
26-SEP-2001; 2001US-0325277P.
20-DEC-2001; 2001US-0342327P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADC07986
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                                                                                                                N-PSDB; ADC07985.
                                                                                                                                                 WPI; 2003-229341/22.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      carbohydrate degradation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      plant biotechnology; carbohydrate synthesis;
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                                                                                                                                                                                                                                                                                                                           (SYGN)
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                                                                                                                                                                                                              Cheng
                                                                                                                                                                                                                                                                                                                        SYNGENTA PARTICIPATIONS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GDWKLIYYYDS 414
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                                                                                                                                                                                                           W, Briggs S,
Katagiri F,
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                                                                                                                                                                                                              Cooper B,
Kreps J, 1
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. 2.1e+02;
. 2.2
an activity involved in or degradation of carbohydrates
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                                                                                                                                                                                                           Moughamer T;
Ricke D;
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Best Local
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          The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invent useful in developmental biology and in elucidating cell signalling cell-cell interactions in higher eukaryotes for the development of
                                                                                                                               New isolated nucleic acid
genes from Drosophila and
                                                                                                                                                                            N-PSDB; ABL11645.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in the plant grain useful in generating plants having improved nutritional properties.
                                                                                      Disclosure; SEQ
                                                                                                                                                                                                                      Venter JC,
                                                                                                                                                                                                                                                                                23-MAR-2000;
11-JUL-2000;
                                                                                                                                                                                                                                                                                                                           23-MAR-2001; 2001WO-US009231.
                                                                                                                                                                                                                                                                                                                                                         27-SEP-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                  Drosophila melanogaster.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Drosophila; developmental biology; cell signalling; insecticide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-MAR-2002 (first entry)
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2000US-00614150.
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                                                                                    ID NO 29418; 21pp + Sequence Listing; English
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Pred. No. 3.6e+02;
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The present invention describes a chimpanzee C68 adenoviral capsid protein, which is substantially free of other viral proteins with which it is naturally associated, comprising (a) a hexon protein comprising 513-amino acid sequence (see ABP56652); (b) a penton protein comprising 254-amino acid sequence (see ABP56647); (c) a fibre protein comprising 425-amino acid sequence (see ABP56662); or (d) a unique fragment of any of (A)-(C) comprising 8-amino acid residues in length. Also described: (1) a novel adenovirus serotype comprising a unique fragment of the C68 hexon protein fused to a heterologous adenovirus hexon peptide; (2) a recombinant or pseudotyped adenovirus comprising a capsid of the novel adenovirus serotype encapsidating a molecule for delivery to a target cell; (3) an adenoviral capsid; (4) a pharmaceutical composition; (5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New C68 chimpanzee adenoviral capsid protein, useful for preparing a composition for treating hyperproliferative conditions e.g., cancer or psoriasis and as a vaccine against bacterial, fungal, viral or parasitic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-JUN-2001; 2001US-0300501P
04-JUN-2002; 2002US-0385632P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       simian adenovirus; cytostatic; antipsoriatic; antimicrobiadenoviral; capsid protein; hexon; penton; fibre protein; hyperproliferative condition; psoriasis; infection.
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                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 88; 124pp; English.
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DB; ABZ22473.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note= "any amino acid"
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6.3e+02;
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c; antimicrobial; vaccin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rapid screening of recombinant constructs; and (6) a host cell. The chimpanzee C68 adenoviral capsid protein has cytostatic, antipsoriatic and antimicrobial activities, and can be used in vaccines. The chimpanzee C68 adenoviral capsid protein is useful for preparing a composition for treating hyperproliferative conditions e.g., cancer or psoriasis and as a vaccine against bacterial, fungal, viral or parasitic infection. The present sequence represents a chimpanzee C68 adenovirus E3 16 KDa protein, which is given in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                     Genomic sequence of Photorhabdus luminescens and encoded polypeptides, useful e.g. as therapeutic antimicrobials and agricultural pesticides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     detection; food; gene expression; antibiotic; biopesticide; virulenc
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CNRS CENT NAT RECH SCI
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85.7%;
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Matches 6
The invention describes a recombinant DNA construct comprising a polynucleotide consisting of a sequence encoding an amino acid sequence available in electronic form from the US patent office at ftp.seqdata.uspto.gov/sequence.html?DocID:2004034888. The polynucleotide of the invention are also useful in physical arrays of molecules and as plant breeding markers. The recombinant DNA construct is useful for improving plant tolerance to cold, heat, drought, herbicides, extreme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    plant protectant; plant growth regulant; gene therapy; plant; recombinant DNA construct; physical array; plant breeding marker; cold tolerance; heat tolerance; drought tolerance; herbicide tolerance; extreme osmotic condition; pathogen tolerance; pest tolerance; growth rate; cell cycle pathway; disease resistance; galactomannan production; lignin production; plant growth regulator; yield; plant growth; plant development; seed oil; protein yield;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             therapeutically (to treat microbial infection by bacteria or fungi that are sensitive to P. luminescens-encoded toxins or antibiotics) and as biopesticides. Other uses of the genes and the proteins are as virulence factors and for identifying targets of human diseases for which P. luminescens is a model (particularly plague and whooping cough). This sequence represents one of the isolated P. luminescens proteins
                                                                                                              Claim 1;
                                                                                                                                                    New recombinant DNA construct, useful for improving plant tolerance to cold, heat, drought, herbicides, extreme osmotic conditions, pathogens pests, for conferring increased resistance to plant disease, or for
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(SCRE/)
(TABA/)
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KOVALIC D K.
SCREEN S E.
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Best Local
         30-APR-1999
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04-MAY-1999
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11-MAY-1999
14-MAY-1999
14-MAY-1999
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23-MAR-1999;
25-MAR-1999;
29-MAR-1999;
01-APR-1999;
06-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      osmotic conditions, pathogens or pests, for manipulating growth rate in plant cells by modification of the cell cycle pathway, for conferring increased resistance to plant disease, for producing galactomannan, lignin or plant growth regulators, for increasing the rate of homologous recombination in plants, for improving yield by modification of photosynthesis or carbobydrate, nitrogen or phosphorus use and/or uptake or by providing improved plant growth and development under at least one stress condition or for modifying seed oil or protein yield and/or content. This is the amino acid sequence of a plant full length insert polypeptide that can be used in the recombinant DNA construct of the
                                                                                                                                                       8
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                                                                                                                                                                                                                                                                                                                                                                                                                                            termination sequence
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99US-0123548P

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99US-013081P

99US-013081P

99US-0131449P

99US-0132484P

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2; Mismatches 2;
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27-MAY-1999 28-MAY-1999 01-JUN-1999 01-JUN-1999 01-JUN-1999 10-JUN-1999 11-JUN-1999 11-JUN	19-MAY-1999; 20-MAY-1999; 21-MAY-1999; 24-MAY-1999; 25-MAY-1999;
99US-0136392P. 99US-0137722P. 99US-0137722P. 99US-013752P. 99US-013752P. 99US-013954P. 99US-013954P. 99US-013955P. 99US-013945P. 99US-013945P. 99US-013945P. 99US-013946P. 99US-01496P. 99US-014482P. 99US-014484P. 99US-014484P. 99US-014484P. 99US-014484P. 99US-014484P. 99US-014484P. 99US-014484P. 99US-014484P. 99US-014481P. 99US-014508P. 99US-014508P. 99US-014508P. 99US-014518P. 99US-014521P. 99US-014521P. 99US-014521P. 99US-014521P. 99US-014521P. 99US-014521P. 99US-014591P.	99US-0134941P. 99US-0135124P. 99US-0135353P. 99US-0135629P. 99US-0136021P.
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Run
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Maximum DB
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Listing first 45 summaries
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Perfect score:
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     2222200554
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1: /cgn2_6/ptodatta/1/pubpaa/US09_NEW_PUB.pep:*

2: /cgn2_6/ptodatta/1/pubpaa/US06_NEW_PUB.pep:*

3: /cgn2_6/ptodatta/1/pubpaa/US07_NEW_PUB.pep:*

4: /cgn2_6/ptodatta/1/pubpaa/US08_NEW_PUB.pep:*

5: /cgn2_6/ptodatta/1/pubpaa/PCT_NEW_PUB.pep:*

6: /cgn2_6/ptodatta/1/pubpaa/US10_NEW_PUB.pep:*

7: /cgn2_6/ptodatta/1/pubpaa/US11_NEW_PUB.pep:*

8: /cgn2_6/ptodatta/1/pubpaa/US10_NEW_PUB.pep:*
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16.417 Million cell updates/sec
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Gapop 10.0 , Gapext 0.5
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     GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
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    DB
                                          US-10-467-657-5026

US-10-467-657-1528

US-10-467-657-1210

US-11-074-176-36

US-11-074-176-36

US-10-467-657-916

US-10-844-129-2

US-11-082-389-302

US-11-082-389-302

US-11-082-389-304

US-11-082-389-304

US-11-085-822-76

US-11-055-822-76

US-11-134-24-52

US-11-134-24-52

US-11-147-047-34

US-11-147-047-34

US-11-184-380-6

US-11-184-380-6

US-11-184-380-1

US-11-184-380-1

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Sequence 6026, Ap
Sequence 7528, Ap
Sequence 1210, Ap
Sequence 36, Appl
Sequence 2, Appli
Sequence 4, Appli
Sequence 302, App
Sequence 304, Ap
Sequence 76, Appl
Sequence 76, Appl
Sequence 76, Appl
Sequence 76, Appl
Sequence 52, Appl
Sequence 52, Appl
Sequence 52, Appl
Sequence 4150, Ap
Sequence 33, Appl
Sequence 34, Appl
Sequence 18, Appl
Sequence 18, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 24, Appl
Sequence 28, Appl
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RESULT 2 US-10-467-657-7528 US-10-467-657-7528 ; Sequence 7528, Application US/10467657 ; Publication No. US20050260581A1 ; GENERAL INFORMATION: ; APPLICANT: CHIRON SpA APPLICANT: PIZZA Maria Rita APPLICANT: PIZZA Mariagrazia ; APPLICANT: MASIGNANI Vega ; APPLICANT: MASIGNANI Vega ; PITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS ; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS ; CURRENT APPLICATION NUMBER: US/10/467,657 ; CURRENT FILING DATE: 2003-08-11 ; PRIOR APPLICATION NUMBER: GB-0103424.8	Query Match  Best Local Similarity 75.0%; Pred. No. 27;  Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps  Qy  4 ELVGYFDS 11    :   :  Db 390 ELLGYFDN 397	US-10-467-6526  US-10-467-657-6026  Sequence 6026, Application US/10467657  publication No. US20050260581A1  GENERAL INFORMATION:  APPLICANT: FONTANA Maria Rita APPLICANT: FONTANA Maria Rita APPLICANT: MASIGNANI Vega APPLICANT: MASIGNANI Vega APPLICANT: MASIGNANI Vega APPLICANT: MONACI Elisabetta  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS FILE REFERENCE:  CURRENT PILING DATE: 2003-08-11  PRIOR APPLICATION NUMBER: US/10/467,657  CURRENT FILING DATE: 2001-02-12  NUMBER OF SEQ ID NOS: 9218  SOFTMARE: SeqWin99, version 1.04  SEQ ID NO 6026  LENGTH: 792  TYPE: PRT  ORGANISM: Neisseria gonorrhoeae  US-10-467-657-6026	ALIGNMENTS	26 31 47.0 290 6 US-10-793-626-214 Sequence 214, App 27 31 47.0 393 6 US-10-821-234-1292 Sequence 1292, Ap 31 47.0 490 6 US-10-131-826A-310 Sequence 310, App 28 31 47.0 626 6 US-10-467-657-7618 Sequence 6426, Ap 31 47.0 626 6 US-10-467-657-7618 Sequence 7618, Ap 31 47.0 745 7 US-11-109-156-14 Sequence 24, Appl 31 31 47.0 745 7 US-11-109-156-14 Sequence 27, Appli 31 30 45.5 310 6 US-10-665-455-11 Sequence 21, Appl 32 31 47.0 745 7 US-11-09-156-19 Sequence 21, Appl 33 30 45.5 310 6 US-10-665-455-11 Sequence 21, Appl 34 30 45.5 318 6 US-10-979-821-2 Sequence 21, Appl 36 30 45.5 318 6 US-10-979-821-2 Sequence 2126, Ap 39 30 45.5 450 6 US-10-793-626-3116 Sequence 2126, Ap 39 30 45.5 450 6 US-10-858-730-8 Sequence 2126, Ap 39 30 45.5 457 0 US-10-858-730-8 Sequence 871, Appl 42 30 45.5 1857 7 US-11-102-217-2 Sequence 87, Appli 42 30 45.5 1857 7 US-11-102-217-2 Sequence 87, Appli 43 29.5 44.7 178 6 US-10-508-263-36 Sequence 22, Appli 44 29.5 44.7 178 6 US-10-508-263-46 Sequence 32, Appli 45.5 457 1 US-11-03-39-890-116 Sequence 32, Appli 45.5 44.7 178 6 US-10-508-263-46 Sequence 32, Appli 45.5 44.7 178 6 US-10-508-263-46 Sequence 32, Appli 45.5 44.7 178 6 US-10-508-263-46 Sequence 46, Appli 45.5 44.7 178 6 US-10-508-263-46

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APPLICANT: Klaenhammer, Todd R.
APPLICANT: Russell, William M.
APPLICANT: Russell, William M.
APPLICANT: Altermann, Eric
APPLICANT: Altermann, Eric
APPLICANT: Peril, Andrea Azcarate
TITLE OF INVENTION: Nucleic Acid Sequences Encoding
TITLE OF INVENTION: Stress-Related Proteins and Uses 7
FILE REFERENCE: 5051-694
CURRENT APPLICATION NUMBER: US/11/074,176
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: 60/551,161
PRIOR APPLICATION NUMBER: 60/551,161
PRIOR FILING DATE: 2004-03-08
NUMBER OF SEQ ID NOS: 381
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 36
LENGTH: 322
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CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, Version 1.04
SEQ ID NO 1210
LENGTH: 356
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NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SegWin99, version 1.04
SEQ ID NO 7528
LENGTH: 792
                                                                                                                                                                                                                                                                                                                  Sequence 36, Application US/11074176
Publication No. US20050250135A1
GENERAL INFORMATION:
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Best Local Similarity 75.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Neisseria gonorrhoeae
-10-467-657-1210
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APPLICANT: FONTANA MARÍA RITA
APPLICANT: PIZZA MARÍAGRAZIA
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
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tes 5; Conserv
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Pred. No.
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Pred. No.
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19;
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US-10-467-657-1916
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-841-129-2
                                                                      FILE REFERENCE: 02307E-145400US
CURRENT APPLICATION NUMBER: US/10/841,129
CURRENT FILING DATE: 2004-05-07
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 926
TYPE: PRT
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Matches
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                                                                                                                                                                                                                 APPLICANT: The Regents of the University of California
APPLICANT: The Government of the United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: A Mammalian Magnesium/Manganese Sensing G Protein
TITLE OF INVENTION: Coupled Receptor
                                                                                                                                                                                                                                                                                                                           APPLICANT: Zuker, Charles S.
APPLICANT: Erlenbach, Isolda
APPLICANT: Hoon, Mark A.
APPLICANT: Ryba, Nicholas J. P.
APPLICANT: Zhang, Yifeng
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Blisabetta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
FEATURE: OTHER INFORMATION: human magnesium/manganese sensing G protein OTHER INFORMATION: coupled receptor (GPCR) R5.24, Mg receptor,
                                                       ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
nes 8; Conserv
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Pred. No.
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25;
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                                                           FILE REFERENCE: BGI-131CPCN
CURRENT APPLICATION NUMBER: US/11/082,389
CURRENT FILING DATE: 2005-03-16
PRIOR APPLICATION NUMBER: US 09/603024
PRIOR FILING DATE: 2000-06-23
PRIOR PPLICATION NUMBER: US 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR PILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: US 60/143262
PRIOR APPLICATION NUMBER: US 60/143262
PRIOR PILING DATE: 1999-07-09
PRIOR PILING DATE: 1999-07-09
PRIOR FILING DATE: 1999-08-27
PRIOR FILING DATE: 1999-08-27
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Best Local Similarity
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Best Local :
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TITLE OF INVENTION: Methods and Compositions Relating to Chimeric TITLE OF INVENTION: Nicotinic Receptor Subunits
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/11/037,829A CURRENT FILING DATE: 2005-01-18 PRIOR APPLICATION NUMBER: US 60/397,380 PRIOR FILING DATE: 2002-07-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Targacept, Inc
APPLICANT: Catholic Healthcare West
APPLICANT: Bencherif, Mercuane
                                                                                                                                                                                                                                                                                                        APPLICANT: Haberhauer, Gregor
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
TITLE OF INVENTION: TRANSPORT
                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Pompejus, Markus
APPLICANT: Kroger, Burkhard
APPLICANT: Schroder, Hartwi
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TYPE: PRT
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 58.3%;
APPLICATION NUMBER: DE 19930487.4 FILING DATE: 1999-07-01 APPLICATION NUMBER: DE 19930489.0
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                                                                                                                                                                                                                                                                                                                                                                                                 Schroder, Hartwig
Zelder, Oskar
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Pred. No.
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Pred. No. 49
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; TYPE: PRT ; ORGANISM: Corynebacterium glutamicum US-11-082-389-304
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CURRENT FILING DATE: 2005-03-16
PRIOR APPLICATION NUMBER: US 09/603024
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: US 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: US 60/143262
PRIOR APPLICATION NUMBER: US 60/151281
PRIOR PILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: US 60/151281
PRIOR PILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: DE 19930487.4
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PRIOR APPLICATION NUMBER: DE 19930489.0
PRIOR PLILING DATE: 1999-07-01
PRIOR PELLORITON NUMBER: DE 19931549.3
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19931550.7
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
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SEQ ID NO 302
                                                                                                                           SEQ ID NO 304
LENGTH: 281
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PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19931550.7
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 1993134.5
PRIOR FILING DATE: 1999-07-09
PRIOR FILING DATE: 1999-07-09
PRIOR PELICATION NUMBER: DE 19941379.7
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                                                                                                                                                                                                             Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 446
                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19941379.7
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                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 1999-08-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
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TYPE: PRT
ORGANISM: Corynebacterium glutamicum
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OTHER INFORMATION: Xaa = Phe, Ser, Tyr, or Cys
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Local Similarity 66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     304,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    T: Zelder, Oskar
T: Haberhauer, Gregor
T: Haberhauer, Gregor
INVENTION: CORVNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
TNVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99 WQLIGY 104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3 WELVGY 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               See File Wrapper or PALM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
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RESULT 11
US-10-131-826A-60
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Best Local Similarity
Watches 5; Conserve
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                                                                                                                                             Sequence 60, Applica Publication No. US20 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 76
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CURRENT FILLING DATE: 2005-02-11
PRIOR APPLICATION NUMBER: 09/606,740
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141,031
PRIOR ETITING DATE: 1000-06-25
PRIOR APPLICATION NUMBER: 60/141,031
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TITLE OF INVENTION: CORYNBBACTERIUM GLUTAMICUM GENES ENCODING
TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
FILE REFERENCE: BGI-121CPCN
                                             APPLICANT:
                                                                    APPLICANT:
                                                                                     APPLICANT:
                                                                                                       APPLICANT: Baker, Kevin P. APPLICANT: Beresini, Maur
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19931420.9
PRIOR FILING DATE: 1999-07-08
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PRIOR APPLICATION NUMBER: 60/142,101
PRIOR FILING DATE: 1999-07-02
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APPLICANT: Kroger, Burkhar
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT ORGANISM: Corynebacterium glutamicum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 431
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APPLICATION NUMBER: DE 19931418.7
FILING DATE: 1999-07-08
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/187,970
                                                                                                                                                                                                                                                                                        284 GPWEL 288
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                                                                                                                                                                                                                                                                                                                               1 GPWEL 5
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                                                                                                                                                               Application US/10131826A
No. US20050245730A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/11055822
No. US20050260707A1
                        Filvaroff, Ellen
Gao, Wei-Qiang
                                                                DeForge, Laura
Desnoyers, Luc
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      Gerritsen, Mary E.
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                                                                                                       Beresini, Maureen
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                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
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Pred. No.
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Pred. No.
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50;
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                                                                                                                                                                                                                                                                                                                                                                                                          Length 431;
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US-11-055-822-72
US-11-055-822-72
Sequence 72, Application US/11055822
Publication US20050260707A1
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FILE REFERENCE: BGI-121CPCN
CURRENT APPLICATION NUMBER: US/11/055,822
CURRENT FILING DATE: 2005-02-11
PRIOR APPLICATION NUMBER: 09/606,740
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141,031
PRIOR APPLICATION NUMBER: 60/142,101
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NUMBER OF SEQ ID NOS: 550
SEQ ID NO 60
LENGTH: 724
                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Pompejus, Markus
APPLICANT: Kroger, Burkhard
APPLICANT: Schroder, Hartwic
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APPLICANT:
APPLICANT:
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                                                                                                                                                                              APPLICANT: Zelder, Oskar
APPLICANT: Haberhauer, Gregor
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES
TITLE OF INVENTION: METABOLIC PATHWAY PROTBINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
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PRIOR APPLICATION NUMBER: 60/059122
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
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FILING DATE: 1997-09-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    83
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                                                                                                                                                                                                                                                               Schroder, Hartwig
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Wood, William
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stewart, Timothy A.
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Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Goddard, Audrey
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Pred. No.
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82;
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PRIOR APPLICATION NUMBER: 60/148,613 PRIOR FILING DATE: 1999-08-12

1999-08-1

APPLICATION NUMBER: 60/187,970 FILING DATE: 2000-03-09

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US-11-113-424-52
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                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/311,613
PRIOR FILLING DATE: 2001-08-10
PRIOR PELLONION NUMBER: 60/315,617
PRIOR PILLING DATE: 2001-08-29
PRIOR APPLICATION NUMBER: 60/307,506
PRIOR FILLING DATE: 2001-07-24
PRIOR APPLICATION NUMBER: 60/322,358
PRIOR APPLICATION NUMBER: 60/322,358
PRIOR FILLING DATE: 2001-09-14
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Matches
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PRIOR FILING DATE: 1999-07-08
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1158
SEQ ID NO 72
LENGTH: 1510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 52, Application US/111 Publication No. US20050260713A1 GENERAL INFORMATION:
                                                                                                                                                                          NUMBER OF SEQ ID NOS: 190
SOFTWARE: PatentIn Ver. 2.
SEQ ID NO 52
LENGTH: 2725
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Corynebacterium glutamicum -11-055-822-72
                                       Matches
                                                      Query Match
Best Local Similarity
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CURRENT APPLICATION NUMBER: US/11/113,424
CURRENT FILING DATE: 2005-04-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Gangolli et al.
TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR
PRIOR
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PRIOR FILING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: 60/311,590
PRIOR FILING DATE: 2001-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 60/257,314 PRIOR FILING DATE: 2000-12-20
                                                                                                                                                                                                                                                           PRIOR FILING DATE:
                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/288,153
                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/294,075 PRIOR FILING DATE: 2001-05-29
                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity 100.0%; Figs 5; Conservative 0;
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APPLICATION NUMBER: DE 19931418.7
FILING DATE: 1999-07-08
APPLICATION NUMBER: DE 19931419.5
FILING DATE: 1999-07-08
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FILING DATE: 1999-07-01
APPLICATION NUMBER: DE 19931415.2
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1 GPWELVGYFD 10
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                                       Conservative
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                                                      50.0%;
60.0%;
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100.0%; Pred. No. 1.0
Live 0; Mismatches
                                   Score 33; DB 7;
Pred. No. 2.9e+02;
0; Mismatches 4
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                                       4; Indels
                                                                        Length 2725;
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                                       Gaps
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CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SegWin99, version 1.04
SEQ ID NO 4150
LENGTH: 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 14
US-10-467-657-4150
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                                                                                      ; NUMBER OF SEQ ID NOS: 52

SOFTWARE: FASTSEQ for Windows Version 3.0

; SEQ ID NO 33

; LENGTH: 533

; TYPE: PAT

; ORGANISM: Homo sapiens

US-11-147-047-33
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US-11-147-047-33
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                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: PCT/US01/07143
PRIOR APPLICATION NUMBER: PCT/US01/07143
PRIOR FILING DATE: 2001-03-05
PRIOR APPLICATION NUMBER: 60/187,107
PRIOR FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: 60/236,874
PRIOR FILING DATE: 2000-10-03
PRIOR PILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/188,916
PRIOR APPLICATION NUMBER: 60/188,916
PRIOR FILING DATE: 2000-03-13
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Publication No.
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Query Match 48.5%;
Best Local Similarity 83.3%;
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: PIZZA Mariagrazia
APPLICANT: WASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Agarwal, Pankaj
APPLICANT: Murdock, Paul R.
APPLICANT: Rizvi, Safia K.
APPLICANT: Smith, Randall F.
APPLICANT: Xiang, Zhaoying
TITLE OF INVENTION: NOVEL COMPOUNDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: GP50016
CURRENT APPLICATION NUMBER: US/11/147,047
CURRENT FILING DATE: 2005-06-07
CURRENT PRIOR APPLICATION NUMBER: US/10/221,097
PRIOR APPLICATION NUMBER: US/10/221,097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE
                                                                                                                                                                                                                                              PRIOR FILING DATE: 2000-10-03
                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/237,846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Neisseria gonorrhoeae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Match 48.5%;
Local Similarity 57.1%;
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Pred. No.
    Score 32; DB 7;
Pred. No. 90;
0; Mismatches
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Db 178 PWEAVG 183

Search completed: December 4, 2005, 04:37:49
Job time: 4.20833 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

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Minimum DB seq length: 0
Maximum DB seq length: 200000000
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                                                                                                      A_Geneseq_21:*
1: geneseqp1980
2: geneseqp1990
3: geneseqp2000
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89
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                                                                                    geneseqp1990s:*
geneseqp2000s:*
geneseqp2001s:*
                geneseqp2003as:*
geneseqp2003bs:*
geneseqp2004s:*
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geneseqp2005s:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	S	4	ω	N	٦	No.	Result
44	44	44	44	44	45	45	45	45	46	47	47	47	48	48	48	51	75	89	89	89	89	89	89	Score	
49.4	49.4	49.4	49.4	49.4				50.6		•	52.8	•	•	٠	•	57.3	٠	100.0	100.0	•	•	100.0	100.0	Match	Query
472	409	342	137	70	614	450	372	54	186	904	455	59	775	229	201	334	15	15	15	15	15	15	15	Length	
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ADC86881	AAB96393	AAB51737	ADA21119	AAG15847	ADF06781	ADN47961	ABU40408	ABP03542	AAM24399	ADS23387	ABG22524	AAY48365	AAB13560	AB066015	ADJ98189	ABG20331	ADR38801	ADR38729	ADR38798	ADR38795	ADR38792	ADR38728	Ř38	ID	
Adc86881 Human GPC	Aab96393 Putative	Aab51737 Human sec		Aag15847 Arabidops		Adn47961 Thermococ	Abu40408 Protein e	Abp03542 Human ORF	Aam24399 Human EST	Ads23387 Bacterial	Novel	Aay48365 Human pro	Aab13560 Streptomy	Abo66015 Klebsiell	Adj98189 Prochloro	Abg20331 Novel hum	Adr38801 Mouse hea	Adr38729 Mouse hea	Adr38798 Mouse hea	Adr38795 Mouse hea	Adr38792 Mouse hea	Adr38728 Mouse hea	38727 Mouse h	Description	

<b>4</b> 5	44	43	42	41	40	39	38	37	36	35	34 4	ω ω	32	31	30	29	28	27	26	25
42	42.5	42.5	42.5	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	44
47.2	47.8	47.8	47.8	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	49.4
53	320	315	315	2519	732	685	685	685	683	683	616	582	546	383	383	383	345	345	100	687
4	7	σ	4	7	9	9	9	N	9	N	æ	4	N	9	σ	N	9	N	8	œ
AAU65794	AB069555	ABU15664	ABB09181	ABM88218	ABM94428	ADZ04207	ADX07646	AAW26165	ADZ04210	AAW26163	ADS20416	AAU30396	AAW26164	AEB49038	ABP79536	AAY38596	AEB49036	AAY38595	ADQ65091	ADS42446
Aau65794	Abo69555	Abu15664	Abb09181	Abm88218	Abm94428	Adz04207	Adx07646	Aaw26165	Adz04210	Aaw26163	Ads20416	Aau30396	Aaw26164	Aeb49038	Abp79536	Aay38596	Aeb49036	Aay38595	Adq65091	Ads42446
Propionib	Pseudomon	Protein e	Pseudomon	Rice abio	M. xanthu	Novel apo	Cyclin-de	Human KF-	Novel apo	Mouse KF-	Crab-eati	Novel hum	KF-1 prot	N. gonorr	N. gonorr	Neisseria	N. gonorr	Neisseria	Novel hum	Bacterial

# ALIGNMENTS

RESULT 1 ADR38727 ID ADR3 antibacterial; antibody; botulinum neurotoxin type A; BoNT/A; BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3. Mouse heavy chain variable region CDR3 seqid 129. ADR38727 standard; peptide; 15 31-AUG-1998; 98US-00144886. 01-AUG-2002; 2002US-0400721P. 01-AUG-2003; 2003US-00632706 US2004175385-A1 Mus sp. 02-DEC-2004 (first entry) ADR38727; 09-SEP-2004. (REGC ) UNIV CALIFORNIA. A

New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.

WPI; 2004-652009/63. Marks JD, Amersdorfer P;

Example 3; SEQ ID NO 129; 110pp; English

The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone \$25, C25, C39, IC6, 3D12, B4, IF3, huC25, A11, A22, WR1(V), WR1(T), 3-1, 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum neurotoxin type A (BoNT/A). Also described are: a polypeptide (II) comprising BoNT/A neutralising epitope having an epitope that is

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ADR38/IJT 2
ADR38/IZS
ADR38/ID ADR3
AC ADR3
AC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 15; Conserv
The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A (BoNT/A). An isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a clone chosen from clone $25, C25, C39, 1C6, 3D12, B4, 1F3, huC25, Ar1, Ar2, WR1(V), WR1(T), 3-1,
                                                                                                                                                                                                                                                                                                                                  New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-AUG-1998; 98US-00144886
01-AUG-2002; 2002US-0400721P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-AUG-2003; 2003US-00632706.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antibacterial; antibody; botulinum neurotoxin type A; BONT/A;
BONT/A neutralising epitope; anti-botulinum neurotoxin antibody;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Marks JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-SEP-2004
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                                                                                                                                                                                                                                                                 Example 3; SEQ ID NO 130; 110pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse heavy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2004-652009/63.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     neutralisation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EPDWLLWGDRGALDV 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amersdorfer P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ā
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               variable region;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       peptide; 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       botulinum neurotoxin poisoning; mouse; region; complementarity determining region; CDR3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    seqid 130.
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ADR3873
ADR3873
ADR3873
ADR373
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antibacterial; antibody; botulinum neurotoxin type A; BoNT/A;
BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody;
toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain;
                                                                                                                                                                                     New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-AUG-1998;
01-AUG-2002;
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                                                                                                                                                                                                                                                                                                                     WPI; 2004-652009/63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-AUG-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   (REGC ) UNIV CALIFORNIA.
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                                                                                                                                                                                                                                                                                                                                                                                    Amersdorfer
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ilarity 100.0%;
Conservative 0
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2002US-0400721P.
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Pred. No. 1.8e-06;
D; Mismatches 0;
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The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific clone where (I) binds to and neutralises botulinum neurotoxin type A

Example 4;

SEQ ID NO 194; 110pp; English

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The invention
                                                                         Example 4; SEQ ID NO 197; 110pp; English
describes an isolated antibody (I) that specifically binds
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New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.

WPI; 2004-652009/63.

Example 4; SEQ ID NO 200; 110pp; English

RRESULT 4
ADR3879
IID ADR33
XX ADR37
AC ADR3
XX ADR3
X specifically bound by an antibody expressed by a clone chosen from clone \$25, C25, C39, IC6, 3D12, B4, IF3, huC25, Ar1, Ar2, WR1(V), WR1(T), 3-1, C3-8, 3-10 and ING1, where (1) binds to and neutralizes botulinum neurotoxin type A (BoNT/A). Also described are: a polypeptide (II) comprising BoNT/A neutralising epitope having an epitope that is specifically bound by an antibody expressed by clones as mentioned in (I); producing (I); and a composition (III) comprising several anticodulinum neurotoxin antibodies, where each antibody is specific for a different epitope of a botulinum neurotoxin and the combination of antibodies shows greater toxin neutralisation than the single antibodies shows greater toxin neutralisation than the single antibodies comprising (I); and a kit comprising (I). (I) is useful for neutralising EONT/A antibody and for neutralising a botulinum neurotoxin which comprising (I); and a kit comprising (I). (I) is useful for neutralising specific for a different epitope of the botulinum neurotoxin and the combination of antibodies shows greater toxin neutralisation than the single antibodies in surplus. (I) is useful for diagnosing the botulism corrections. (I) exhibits specificity and affinity towards BoNT/A. (I) collaboration or diagnosis of botulism. This is the amino acid sequence of mouse heavy chain anti-BoNT-antibody CDR3. Best Loc Matches 31-AUG-1998; 98US-00144886. 01-AUG-2002; 2002US-0400721P. antibacterial; antibody; botulinum neurotoxin type A; BONT/A; BONT/A neutralising epitope; anti-botulinum neurotoxin antibody; Sequence 15 AA; New isolated antibody that neutralizes botulinum neurotoxin type A, useful for diagnosing botulism or for treating pathologies associat with botulinum neurotoxin poisoning. Marks JD, Amersdorfer P; 01-AUG-2003; 2003US-00632706 09-SEP-2004. US2004175385-A1 Mouse heavy chain anti-BoNT-antibody CD3 seqid 197. 02-DEC-2004 (first entry) ADR38795 standard; peptide; 15 WPI; 2004-652009/63. (REGC ) UNIV CALIFORNIA. Local neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain; complementarity determinig region 1. 1 EPDWLLWGDRGALDV 15 ш Similarity Conservative 100.0%; Score 89; DB 8; Length 15; 100.0%; Pred. No. 1.8e-06; 0 Mismatches 0 0 Gaps 0

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RESULT 5
ADR3373
XX ADR33
XX ADR32
XX A
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Best Local S
Matches 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antibacterial; antibody; botulinum neurotoxin type A; BONT/A; BONT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; hea CDR3; complementarity determinig region 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-AUG-1998; 98US-00144886.
01-AUG-2002; 2002US-0400721P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-AUG-2003; 2003US-00632706
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                                                                                                                                                                                                                                                                                                                                                                                                        (REGC ) UNIV CALIFORNIA.
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                                                                                                                                                                                                                                                                                                                         Amersdorfer P;
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RRESULT 6
ADR337
XX ADR33
XX ADR33
XX MOUS
XX MOUS
XX MOUS
XX HOSY
XX HOSY
XX BONT
XX 
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Best Local Similarity
New isolated antibody that neutralizes botulinum neurotoxin type \lambda, useful for diagnosing botulism or for treating pathologies associated with botulinum neurotoxin poisoning.
                                                                                                                                                                                                                                                                                                                                                                                       31-AUG-1998; 98US-00144886.
01-AUG-2002; 2002US-0400721P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-AUG-2003; 2003US-00632706.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antibacterial; antibody; botulinum neurotoxin type A; BoNT/A; BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; heavy chain variable region; complementarity determining region; CDR3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse heavy chain variable region CDR3 seqid 131.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-DEC-2004
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                                                                                                                                                                WPI; 2004-652009/63.
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                                                                                                                                                                                                                                   Amersdorfer P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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Pred. No. 1.8e-06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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The invention describes an isolated antibody (I) that specifically binds to an epitope specifically bound by an antibody expressed by a specific CC clone where (I) binds to and neutralises botulinum neurotoxin type A CC (BONT/A). An isolated antibody (I) that specifically binds to an epitope Specifically bound by an antibody expressed by a clone chosen from clone CC specifically bound by an antibody expressed by a clone chosen from clone CC comprising BONT/A neutralising epitope having an epitope that is Specifically bound by an antibody expressed by clones as mentioned in (I) comprising BONT/A neutralising epitope having an epitope that is CC specifically bound by an antibody expressed by clones as mentioned in (I) producing (I); and a composition (III) comprising several antication of antibodies shows greater toxin neutrotoxin and the single antibodies shows greater toxin neutralisation than the single antibodies comprising (I); and a kit comprising (I) is useful for neutralising BONT/A antibody and for neutralising (I) in surplus, where each antibodies combination of antibodies neutralising a botulinum neurotoxin which comprising (I); and a kit comprising (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin which complementalisation than the complication of antibodies shows greater toxin neutralisation than the complication of antibodies shows greater toxin neutralisation than the complementalisation than the complementalisation than the complementalisation than the second complementalisation than the complementalisation than the sequence of mouse heavy chain variable region complementarity determining and complementarity determining complementarity determining and complementarity determining and complementarity determining and complementarity determining complementarity determining complementarity determin
Sequence 15 AA;
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                                                                                                                                     (CDR3) from anti-botulinum neurotoxin antibodies.
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                              Matches
                                     Best
                                             Query Match
                                      Local
                              15;
ш
            1 EPDWLLWGDRGALDV
                                     h 100.0%;
Similarity 100.0%;
                              Conservative
15
               15
                              <u>,</u>
                                     Score 89; DB 8; 1
Pred. No. 1.8e-06;
                              Mismatches
                              0
                                           Length 15;
                              Indels
                              0
                              Gape
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02-DEC-2004 (first entry)
Mouse heavy chain anti-BoNT-antibody CD3 seqid 203
                                                                                                                                                                               ADR38801 standard; peptide; 15
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BoNT/A neutralising epitope; anti-botulinum neurotoxin antibody; toxin neutralisation; botulinum neurotoxin poisoning; mouse; hea CDR3; complementarity determinig antibacterial; antibody; botulinum neurotoxin type A; BoNT/A; botulinum neurotoxin poisoning; mouse; heavy chain; region 1.

RESULT 7
ADR389A
XX ADR38
XX ADR38
XX ADR38
XX MOUS
XX MOUS
XX MOUS
XX BONT
XM COXIN
XM COXIN
XM COXIN
XM COXIN
XM COXIN
XX US20
XX US20
XX O9-S
XX O1-A
PR 01-A
XX AREC
XX WPI;
XX WPI;
XX WPI; 31-AUG-1998; 01-AUG-2002; 01-AUG-2003; 2003US-00632706 WPI; 2004-652009/63 Marks JD, Amersdorfer P; US2004175385-A1 98US-00144886. 2002US-0400721P. CALIFORNIA.

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RESULT 8
ABG20331
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes an isolated antibody (I) that specifically binds CC to an epitope specifically bound by an antibody expressed by a specific CC clone where (I) binds to and neutralises botulinum neurotoxin type A CC (BoNT/A). An isolated antibody (I) that specifically binds to an epitope CC specifically bound by an antibody expressed by a clone chosen from clone CC 3-8, 3-10 and ING1, where (I) binds to and neutralizes botulinum CC comprising BoNT/A neutralising epitope having an epitope that is CC specifically bound by an antibody expressed by clones as mentioned in (I); producing (I); and a composition (II) comprising several anti-CC producing (I); and a composition (II) comprising several anti-CC producing (I); and a composition (II) comprising several anti-CC in surplus. The following are disclosed: a pharmaceutical composition (CC comprising (I); and a kit comprising (I). (I) is useful for neutralising CC involves contacting neurotoxin with (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin which (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin which (I) in surplus, where each of (I) is specific for a different epitope of the botulinum neurotoxin than the CC single antibodies in surplus. (I) is useful for diagnosing the botulism or for treating pathologies associated with botulinum neurotoxin than the CC single antibodies in surplus. (I) is useful for diagnosing the botulism or for treating pathologies associated with botulinum neurotoxin claim than the composition or diagnosis of botulism. This is the amino acid sequence of mouse heavy chain anti-BoNT-antibody CDR3.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
WPI; 2001-639362/73
N-PSDB; AAS84518.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO200175067-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel human diagnostic protein #20322.
                                                                                                                                                                                                                                   31-MAR-2000; 2000US-00540217
23-AUG-2000; 2000US-00649167
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
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                                                                                                                                                                                                                                                                                                                                       30-MAR-2001; 2001WO-US008631.
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                                                                                                   RT,
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                                                                                                Liu C,
                                                                                                                                                                   INC.
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                                                                                                Tang YT;
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Pred. No.
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RESULT 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                    Norris SR, Lincoln K, Abad MS, Eilers R,
Hirschberg J, Karunanandaa B, Moshiri F,
Venkatesh TV;
                                                                                                                                                                                                                                                                                                                                                  05-AUG-2002; 2002US-0400689P.
05-AUG-2003; 2003US-00634548.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-AUG-2003; 2003WO-US025276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Prochlorococcus marinus str. MIT 9313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      phytol kinase; tocopherol biosynthesis; plant; drought resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Prochlorococcus marinus str MIT 9313 phytol kinase protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-MAY-2004
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                                                                                                                                                                                                                                                                          (MONS ) MONSANTO TECHNOLOGY LLC
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8; Conserv
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nilarity 53.3%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  isolated polynucleotide (I) and polypeptic as hybridisation probes, polymerase chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 51; DB Pred. No. 23; 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4.
                                                                                                                                                             Hartsuyker KK;
Stein JC, Vale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (I) and polypeptide (II)
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WPI; 2004-157125/15

chromophore;

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RESULT 10
ABO66015
ID ABO66015
AC ABO66
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Matches
                                                                           Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel substantially purified nucleic acidenolecule encoding a phytol kinase. The nucleic acidenolecules and polypoptides of the invention may be useful in mediating tocopherol biosynthesis and in producing plants with increased drought resistant of the current sequence is that of a phytol kinase protein of the invention may be useful.
                                                                                                                                     Sequence
                                                                                                                                                                       The invention describes a new isolated nucleic acid encoding a Klebsiella pneumoniae polypeptide. Also described are: a recombinant expression vector comprising the nucleic acid, operably linked to a transcription regulatory element; and a cell comprising the recombinant expression vector. The nucleic acid is useful for preparing a vaccine composition against Klebsiella pneumoniae. This is the amino acid sequence of a Klebsiella pneumoniae polypeptide of the invention
                                                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 12532; 932pp; English.
                                                                                                                                                                                                                                                                                                                                                                    preparing a
                                                                                                                                                                                                                                                                                                                                                                                        New nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Breton
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-JAN-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Klebsiella pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Recombinant expression vector; transcription regulatory element; Klebsiella pneumoniae protein; antibacterial; Vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Klebsiella pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABO66015;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABO66015 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 201
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GENO-)
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les 6; Conserv
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                                                         Similarity
8; Conserv
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EPDWLLWGDRGALD
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                                                                                                                                                                                                                                                                                                                                                                  acid encoding a Klebsiella pneumoniae polypeptide, vaccine composition against Klebsiella pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Osborne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein;
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                                                                             53.9%;
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                       14
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Pred. No.
                                                                             Score 48;
Pred. No.
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                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           39;
                                                                                               DB 7;
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                                                                                               Length 229;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein of the invention
                                                         Indels
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                                                       Gaps
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AAY48365
   SXXXXXXXXXXXXX
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                                                                                                                                                                                                                                                                                                            片
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Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence is the protein which is encoded by open reading frame -1 of the Streptomyces globisporus enediyne C-1027 gene cluster. Enediyne C-1027 is an antibiotic, consisting of an apoprotein and a non-peptidic chromophore, which acts by damaging DNA. The sequences within the gene cluster, and the proteins they encode, can be used in the treatment of cancer, along with antagonists of the protein. This protein is an ABC transport/UvrA-like protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Isolated nucleic acid comprising a nucleic acid encoding any open reading frames (ORFs) -7 to 42, excluding ORF 9 (cagA), the production of enediyne C-1027 antitumor antibiotics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Enediyne C-1027 biosynthesis gene cluster; apoprotein; open reading frame -1; cancer.
                                   Expressed sequence tag; EST; cancer; tissue specificity; h
                                                                                                                                     08-DEC-1999
                                                                                                                                                                                                             AAY48365 standard; protein; 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 15; Page 87-91; 160pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          06-JAN-1999;
05-JAN-2000;
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                                                                                                                                                                                                                                                                                                            195
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAA63348,
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                                                                                                                                                                                                                                                                                                          PDWQIWAKSGRLD
                                                                                                                                                                                                                                                                                                                                                  PDWLLWGDRGALD 14
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2000US-00477962.
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                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                             cancer-associated protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Christenson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA63349
                                                                                                                                                                                                                                                                                                                                                                                                      53.9%;
                                                       prostate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           English.
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                                                                                                                                                                                                                                                                                                                                                                                                      Score 48; DB 3;
Pred. No. 1.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                         tumor;
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                                                         treatment;
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of C-1027 useful for

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                                                                                                                                                                                                                                                                                                                                                RESULT 13
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Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes novel nucleic acid sequences (A) that are expressed at high level in normal prostatic tissue. Polypeptides (I) encoded by (A) are used: (a) for identifying agents for treatment of prostatic cancer and (b) for therapy of prostate cancer, optionally where expressed by gene therapy methods. (A) is also used to isolate full-length genes (for gene therapy) and for recombinant production of (I), which can be used to raise specific antibodies. (A) are identified by assembly of ESTs (expressed sequence tags) before these are analyzed for expression pattern (tissue specificity). This approach eliminates many of the false results, as regards tissue specificity, associated with known methods that use single (usually short) ESTs. ANY48304-Y48455 represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               methods that use single (usually short) ESTs. AAY48304-Y48456 represent peptides encoded by the expressed sequence tags described in the method of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-MAR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      agents.
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                                                                                                                                                                                           Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
                                                                                                                                                                                                                                                               18-FEB-2002
                                                                                                                                                                                                                                                                                                                   ABG22524 standard; protein; 455 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New nucleic acid expressed at high level in normal prostatic tissue and encoded polypeptides, used to treat cancer and screen for therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (META-) METAGEN GES
                                        31-MAR-2000; 2000US-00540217.
23-AUG-2000; 2000US-00649167.
                                                                               30-MAR-2001; 2001WO-US008631
                                                                                                          11-OCT-2001
                                                                                                                                      WO200175067-A2
                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                  Novel human diagnostic protein #22515.
              (HYSE-) HYSEQ
                                                                                                                                                                                                                                                                                                                                                                                        44 WLLWGSRG 51
                                                                                                                                                                                                                                                                                                                                                                                                                  4 WLLWGDRG 11
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87.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Schmitt A,
                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 47; DB Pred. No. 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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RESULT 14
ADS23387
ID ADS23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC sequences. (I) is useful as hybridisation probes, polymerase chain cc reaction (PCR) primers, oligomers, and for chromosome and gene mapping, cand in recombinant production of (II). The polymucleotides are also used ci in diagnostics as expressed sequence tags for identifying expressed sequence tags for identifying expressed cc useful for generating antibodies against it, detecting or quantitating a cc useful for generating antibodies against it, detecting or quantitating a cc useful for generating and its binding partners are useful in medical imaging co fittes expressing (II). (I) and (II) are useful for treating disorders cinvolving aberrant protein expression or biological activity. The cc polypeptide and polynucleotide sequences have applications in cc diagnostics, forensics, gene mapping, identification of mutations cc amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic gatent did not appear in the printed specification, but was obtained in celectronic format directly from WIPO at clectronic format directly from WIPO at fip. wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 7
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                                                                                                                                                                               nitrogen;
bacterial
                                                                                                                                                                                                            Recombinant DNA construct; transformed plant; improved plant property; cold tolerance; heat tolerance; drought tolerance; heatblcide; osmosis; pathogen tolerance; pest tolerance; plant disease resistance; cell cycle pathway modification; plant growth regulator; homologous recombination; seed oil yield; protein yield; carbohydrate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 20; SEQ ID NO 52883; 103pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            biodiversity.
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                                                                                                                                                Bacteria
                                                                                                                                                                                                                                                                                                               Bacterial polypeptide #12420
                                                                                                                                                                                                                                                                                                                                                  02-DEC-2004
                                                                                                                                                                                                                                                                                                                                                                                                                  ADS23387 standard; protein; 904 AA
               21-FEB-2002; 2002US-0360039P
                                                20-FEB-2003; 2003US-00369493
                                                                                                               US2003233675-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention
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7; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        455 AA;
                                                                                                                                                                               polypeptide
                                                                                                                                                                                           phosphorus; photosynthesis; lignin;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      52.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            isolated polynucleotide (I) and polypeptide (II)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  YŦ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 47; DB 4;
Pred. No. 1.3e+02;
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RESULT 15
AAM24399
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC provide for expression of a polynucleotide encoding a polypetide from a CC microbial source. The invention also relates to a transformed plant CC comprising the recombinant DNA construct and a method of producing a CC transformed plant having an improved property. The plant is a crop plant CC such as maize or soybean. The method of producing a transformed plant CC such as maize or soybean. The method of producing a transformed plant CC such as maize or soybean. The method of producing a transformed plant CC recombinant DNA construct and growing the transformed plant with the CC improved plant properties, e.g. improved cold, heat or drought tolerance, CC improved plant properties, e.g. improved cold, heat or drought tolerance, CC increased resistance to plant disease, better growth rate by modification of the cell cycle pathway with plant growth regulators, increased rate of CC content, improved yield by modification of carbohydrate, nitrogen or phosphorus use and/or uptake, by modification of photosynthesis or by CC condition, improved lignin production of photosynthesis or by CC condition, improved lignin production or improved galactomannan CC condition, improved lignin production or improved galactomannan CC production. Note: The sequence data for this patent did not CC form part of the printed specification but was obtained in electronic CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from USPTO at sequence data for this patent did not CC format from the country of the country of the country of
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(HINK/)
(SLAT/)
(CHEN/)
                                                                                                       Homo sapiens
                                                                                                                                                gene
                                                                                                                                                                Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse; tomato; monkey; dog; sea urchin; expressed sequence tag; EST; diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
                                                                                                                                                                                                                                                     Human EST encoded protein SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                AAM24399 standard; protein; 186 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 904 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; SEQ ID NO 12420; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New recombinant DNA construct comprising a promoter positioned to provide for expression of a polynucleotide encoding a polypeptide from a microbial source, useful for producing plants with improved properties.
                                                               WO200154477-A2
                                                                                                                                                                                                                                                                                                 12-OCT-2001
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                                                                                                                                              therapy;
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SLATER S C.
CHEN X.
GOLDMAN B S.
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Pred. No. 2.6e
2; Mismatches
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2.6e+02;
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Search completed: December 4, 2005, 04:44:59

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Matches
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17-JUL-2000;
03-AUG-2000;
15-SEP-2000;
                                                                                                                             The present invention provides the protein and coding sequences of novel proteins from a variety of organisms, including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess bioddyersity and for nutritional purposes. The present sequence is a
                                                                                                                                                                                                                                                                                                                              Cao
                                                                                                                                                                                                                                                                                                                                          Tang
                                                                                              Sequence 186 AA;
                                                                                                                                                                                                                               Claim 20; Page 1235; 1275pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-JAN-2001; 2001WO-US002687
                                                                                                                                                                                                                                                       Isolated polypeptide for treatment of diseases, diagnostics, raising antibodies and research use.
                                                                                                                                                                                                                                                                                                       WPI; 2001-476164/51.
                                                                                                                                                                                                                                                                                                                                                                (HYSE-) HYSEQ INC.
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168
                       2 PDWLLWG--DRGALD 14
                                              Similarity
8; Conserv
                                                                                                                    of the invention
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                                                                                                                                                                                                                                                                                                                            , Liu C, Zh
Drmanac RA,
 PGWLIWGGKNRGGLN
                                                                                                                                                                                                                                                                                                                                                                                        ; 2000US-00491404.
; 2000US-00617746.
; 2000US-00631451.
; 2000US-00663870.
                                               Conservative
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Zhang .
                                                         51.7%;
 182
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J, Werh
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Pred. No. 71;
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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89
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                                                                         PIR_80:*
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Copyright (c) 1993 - 2005 Compugen Ltd
pir2:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-373 <KAM>
A;Residues: 1-373 <KAM>
A;Cross-references: UNIPROT:058089; UNIPARC:UPI0000062DB7; GB:AP0000002; NID:g3236129; PI
A;Experimental source: strain OT3
A;Note: this accession replaces an interim accession for a sequence replaced by GenBank
A;Note: this accession replaces an interim accession for a sequence

M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida, N.; Oguchi DNA Res. 5, 55-76, 1998
A;Title: Complete sequence and gene organization of the genome of a hyper-thermophilic a A;Reference number: A71000; MUID:98344137; PMID:9679194
A;Accession: D71142

si, Y.; Sawada, M.; Horikawa, H.; Haikawa, Y.; Hino, Y.; Yamamoto, S.; Sekin Y.; Punahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida, N.; Oguchi

hypothetical protein PH0351 - Pyrococcus horikoshii C;Species: Pyrococcus horikoshii C;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 09-Jul-2004 C;Accession: D71142

R;Kawarabayasi,

SUMMARIES

Genetics:

	S D	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	<b>9</b>	æ	7	o	vı	4	w	2	щ	No.	Result	
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*****	T49577	H84037	T38156	H87311	T51431	G64771	A85539	T46944	E90688	AI0554	A69819	E53240	AG2925	G98356	H83276	A82593	JC5392	JC5393	T50422	S77614	E95296	T10930	875010	G82768	T30842	AG0066	G70595	AE3234	D71142	B		
	hynothetical prote	long-chain fatty-a	citrate lyase - fi	hypothetical prote	glucosyltransferas	yajK protein - Esc	probable oxidoredu	thiamin biosynthes	probable oxidoredu	~	probable phosphoes		מַ			ical		zinc finger protei	homolog to yeast o	phosphoribosylform	probable ABC-type	3C3.21 protein - S	hypothetical prote	virulence protein	serine-repeat anti	probable AMP-bindi	probable entD prot	pt i or	thetical pr	scription		

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
41	41	41	41	41	41	41	41	41	41	42	42	42	42	42	42
46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	47.2	47.2	47.2	47.2	47.2	47.2
459	442	438	408	403	359	288	262	248	36	993	804	804	804	804	608
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T27657	D84600	T37786	AG0305	T10847	C70735	AG0888	F75093	T36093	E84416	B97219	G90698	A85549	G64780	AG0565	T34994
hypothetical prote	probable xylulose	probable RNA-bindi	probable L-iditol	y4hM protein - Rhi	probable idsA prot	probable AraC-tami	hypothetical prote	probable DNA methy	hypothetical prote	conserved membrane	probable oxidoredu	probable oxidoredu			probable long-chai

# ALIGNMENTS

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ster, E.W.
A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
A;Accession: AE3234
                                                                           R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, erage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; McClel, Karp, P.; Romero, P.; Zhang, S. Science 294, 2317-2323, 2001
A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm, ster, E.W.
                                                                                                                                                                                                       transcriptional regulator, LysR family gcvA [imported] - Agrobacterium tumefaciens (stra C;Species: Agrobacterium tumefaciens C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004 C;Accession: AB3234
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43.5%;
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Pred. No.
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                                                                                                                                                                     Y.; Woo, L
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A;Cross-references: UNIPROT:Q8U680; UNIPARC:UPI00000D2764; GB:AE008690; PIDN:AAL46291.1; A;Experimental source: strain C58 (Dupont) C;Genetics:

A; Molecule type: DNA A; Residues: 1-298 < KUR> A;Status: preliminary

A;Gene: gcvA

PII

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A;Genome:
C;Superfam
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                                                                                                                                                                                                                                                                                                                                                                                                                                               probable AMP-binding enzyme-family protein YPO0537 [imported] - Yersinia pestis C;Species: Yersinia pestis C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004 C;Accession: AG0066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       probable entD protein - Mycobacterium tuberculosis (strain H37RV)
C;Species: Mycobacterium tuberculosis
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                  R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barre, Nature 413, 523-527, 2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Hc Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S. Nature 393, 537-544, 1998
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                                                                                                                                                                                                                                                                 A;Status: preliminary A;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                            A;Title: Genome sequence of Yersinia pestis, the causative agent of plague A;Reference number: AB0001; MUID:21470413; PMID:11586360
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                                                                                                                                                                                                                                                                                                       A; Accession: AG0066
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;Experimental source: strain H37Rv
                                                                                                                                                                Superfamily:
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56.2%;
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S.; Barrell,
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A;Cross-references: UNIPROT:Q9PFC4; UNIPARC:UPI00000C24F4; GB:AE003916; GB:AE003849; NID: A,Experimental source: strain 9a5c R;Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; Al Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrar, H. as-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S. submitted to GenBank, June 2000
A,Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohme, J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigre, Chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Martino, C.L.; Marques, M.V.; Martins, E. A.Authors: Martins, E.M.F.; Mateubumma, A.V.; Mark, C.F.M.; Miracca, E.C.; Myyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A. Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V. E., de Sa, R.G.; Santelli, R.V.; Sawasak, A.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z., A.Reference number: A59328
                                                                                                                                                                            A;Gene:
C;Superf
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A;Title: Identification and cloming of a locus of serine repeat antigen (sera)-relat A;Reference number: Z20898; MUID:96408670; PMID:8813677
A;Accession: T30842
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A;Title: The genome sequence of the plant pathogen Xylella fastidiosa.

A;Reference number: A82515; MUID:20365717; PMID:10910347

A;Note: for a complete list of authors see reference number A59328 below

A;Accession: G82768
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C;Species: Xylella fastidiosa
C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004
C;Accession: G82768
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A; Residues: 1-237 <SIM>
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C;Species: Plasmodium vivax
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 09-Jul-2004
C;Accession: T30842
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A; Residues: 1-1076 < KIE>
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                                                       Similarity 7; Conserv
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                                                    Score 44; DB
Pred. No. 24;
1; Mismatches
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                                                                                                              Length 237;
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C;Species: Pyrococcus abyssi
C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 09-Jul-2004
C;Accession: B75010
                                                                              R;Barnett, M.J.; Fisher, R.F.; Jones, T.; Komp, C.; Abola, A.P.; Barloy-Hubler, F.; Bows; Kalman, S.; Keating, D.H.; Palm, C.; Peck, M.C.; Surzycki, R.; Wells, D.H.; Yeh, K.C. Proc. Natl. Acad. Sci. U.S.A. 98, 9883-9888, 2001
A;Title: Nucleotide sequence and predicted functions of the entire Sinorhizobium melilot A;Reference number: A95262; MUID:21396509; PMID:11481432
A;Accession: E95296
A;Status: preliminary
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A;Experimental source: strain A3(2)
C;Genetics:
A;Gene: 3C3.21
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C;Specias: Streptomyces coelicolor
C;Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 09-Jul-2004
C;Accession: T10930
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A; Residues: 1-409 < KAW>
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                                                                                                                                                                                                                                          probable ABC-type iron transport system protein SMa0525 [imported] - Sinorhizobium C;Species: Sinorhizobium meliloti
C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 09-Jul-2004
C;Accession: E95296
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A; Residues: 1-491 < PAR>
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A; Accession: T10930
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: UNIPROT:Q9UY92; UNIPARC:UPI0000034560; GB:AJ248288; GB:AL096836; NID
A;Experimental source: strain Orsay
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A;Accession: B75010
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A;Cross-references: UNIPROT:Q930C1; UNIPARC:UPI00000CB03E; A;Experimental source: strain 1021, megaplasmid pSymA
                                       A; Molecule type: DNA
A; Residues: 1-601 < KUR>
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Pred. No.
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Pred. No. 49;
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                       GB:AE006469; PIDN:AAK64935.1
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R;Galibert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola, P.; Ampe, F.; Barloy-Hubler, pela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher, R.F.; L.; Hyman, R.W.; Jones, T. Science 293, 668-672, 2001
Science 293, 668-672, 2001
A;Authors Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K. A;Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A;Reference number: A96039; MUID:21368234; PMID:11474104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: UNIPROT:Q55037; UNIPARC:UPI0000176276; EMBL:U33322; NII A;Experimental source: PCC 7942 R;Liu, Y:; Tsinoremas, N.F.; Golden, S.S.; Kondo, T.; Johnson, C.H. Mol. Microbiol. 20, 1071-1081, 1996 Mol. Microbiol. 20, 1071-1081, 1996 A;Title: Circadian expression of genes involved in the purine biosynthetic A;Reference number: $77612; MUID:96405630; PMID:8809759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Liu, Y.; TBinoremas, N.F. submitted to the EMBL Data Library, August 1995 A;Description: Unusual gene arrangement for the A;Reference number: $77614 A;Accession: $77614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Variety: PCC 7942
C; Date: 29-Jul-1997 #sequence_revision 24-Oct-1998 #text_change 31-Dec-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    phosphoribosylformylglycinamidine synthase (EC 6.3.5.3) N,Alternate names: FGAM synthetase
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                                                                                                                                            A;Description: catalyzes the condensation of 5'-phosphoribosylformylglycinamide with A;Pathway: purine nucleotide biosynthesis A;Note: fourth step in pathway C;Keywords: ligase; purine nucleotide biosynthesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S77614
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C;Function:
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A; Residues: 113-321 <LIW>
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A;Status: nucleic acid sequence not shown; translation not
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A;Residues: 1-112 <LIU>
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Local Similarity 85.7%;
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                                                  Similarity 7; Conserve
     2 PDWLLWGDRGA 12
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Pred. No.
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homolog to yeast orf yor166c. [imported] - fission yeast (Schizosaccharomyces C;Species: Schizosaccharomyces pombe C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 09-Jul-2004 C;Accession: T50422

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240 PDWLLFAEGGA

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T50422

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Biochem. Biophys. Res. Commun. 231, 481-487, 1997
A;Title: Cloning of human and mouse cDNAs encoding novel zinc finger proteins expressed A;Reference number: JC5392; MUID:97223484; PMID:9070305
A;Accession: JC5392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F;326-344/Domain: transmembrane #status predicted <TM1>
F;352-380/Domain: transmembrane #status predicted <TM2>
F;6515-666/Domain: RING finger homology <ANG>
F;100,155,228,273,301,398,536/Binding site: carbohydrate
F;664/Binding site: phosphate (Ser) (covalent) (by proteing the proteing state of the protein
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C;Species: Mus musculus (house mouse)
C;Date: 04-Jun-1997 #sequence_revision 18-Jul-1997 #text_change 09-Jul-2004
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JC5393
                                                                                                                                                                                                                                                              zinc finger protein KF-1 precursor - human
C;Species: Homo sapiens (man)
C;Date: 04-Jun-1997 #sequence_revision 18-Jul-1997 #text_change 09-Jul-2004
C;Accession: JC5392
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A;Title: Cloning of human and mouse cDNAs encoding novel zinc
A;Reference number: JC5392; MUID:97223484; PMID:9070305
A;Accession: JC5393
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A;Cross-references: UNIPROT:Q9P7J1; UNIPARC:UPI000006AA1B; EMBL:AL157991; PIDN:CAB76224
A;Experimental source: strain 972h(-); cosmid c24B10
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A;Accession: T50422
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       A;Status: nucleic acid sequence
                                                                                                                                                                                                                        R; Yasojima, K.; Tsujimura, A.; Mizuno, T.; Shigeyoshi,
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probable lipase PA2949 [imported] - Pseudomonas aeruginosa (strain PAO1) C;Specias: Pseudomonas aeruginosa (C;Daecias: Pseudomonas aeruginosa (C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 12-Jul-2004 C;Accession: H83276 R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hic
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                                                                                                                                                                                      H83276
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R. Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; A Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.B.A.; Carraro, D.M.; Carrer, H as-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S. submitted to GenBank, June 2000

A; Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohm. J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.B.; Kuramae, B.E.; Laigra Chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marrino, C.L.; Marques, M.V.; Martins, B. A; Authors: Martins, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y., F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A. Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawssak, A; Authors: da Silva, A.C.R.; da Silve, F.R.; da Silva, Jr. M.A.; da Silveira, M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z. A, Reference number: A59328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypothetical protein XF2169 [imported] - Xylella fastidiosa (strain 9a5c) C;Species: Xylella fastidiosa (C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004 C;Accession: A82593 R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Nature 406, 151-157, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Gene: kf-1
C;Superfamily: zinc finger protein KF-1 precursor
C;Keywords: zinc
C;Keywords: zinc
F;1-19/Domain: signal sequence #status predicted
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A;Residues: 1-685 <7NAS>
A;Cross-references: UNIPROT:O00237; UNIPARC:UPI0000073F2A;
A;Experimental source: brain
C;Comment: This protein is involved in membranous protein-s
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: UNIPROT:Q9PBH5; UNIPARC:UPI00000C2968; A;Experimental source: strain 9a5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Title: The genome sequence of the plant pathogen Xylella fastidiosa. A;Reference number: A85515; MUID:20365717; PMID:10910347 A;Note: for a complete list of authors see reference number A59328 below A;Accession: A82593
                                                                                                                                                                                                                     A;Gene:
                                                                                                                                                                                                                                                  C;Genetics:
                                                                                                                                                                                                                                                                      A; Contents: annotation
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A; Residues: 1-698 <SIM>
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transmembrane #status predicted 
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0; Mismatches
                                                                                                                                   Score 43; DB
Pred. No. 97;
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X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.;

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adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, J.; Cory, S., Olson, M.V.
Nature 406, 959-964, 2000
A;Title: Complete genome sequence of Pseudomonas aeruginosa PAO1, an opportunistic pathor, Reference number: A82950; MUID:20437337; PMID:10984043
A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Residus: preliminary
A;Molecule type: DNA
A;Residus: 1-315 <STO>
A;Cross-reference: UNIPROT:Q9KJG6; UNIPARC:UPI00000C4EC6; GB:AE004721; GB:AE004091; NID
A;Experimental source: strain PAO1
C;Genetics:
A;Gene: PA2949
C;Superfamily: tropinesterase
Query Match
Best Local Similarity 66.7%; Pred. No. 54;
Matches 10; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
Db 24 PTILLWGDRG-ALDV 15
Db 24 PTILLWGDRG-ALDV 263
Search completed: December 4, 2005, 04:53:46
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          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Q5LQ90_SILPO
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Q8EJF9_SHEON
Q5SS0_CRYNE
Q59SA1_CANAL
Q59SA1_CANAL
Q59SA1_STRGL
Q5PS70_CANAL
Q8ZR97_GRYSA
Q5ZDZ_CRYSA
Q5ZDZ_CRYSA
Q7UG34_RHOBA
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Q4WD4_ASPFU
Q4WD4_ASPFU
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Hypothetical protein.
OrderedLocusNames=nfa48030;
            Nocardia farcinica.
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ID Q6H084;
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Submitted (DEC-2004) to the EMBL/GenBank)."BJ databases.
EMBL; AP008231; EAD78770.1; -; Genomic DNA.
GO; GO:0008649; F:rRNA methyltransferase activity; IEA.
GO; GO:000854; P:rRNA methyltransferase
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Proc. Natl. Acad. Sci. U.S.A. 101:14925-14930 (2004).
EMBL, AP006618; BAD59655.1; -; Genomic_DNA.
Complete proteome; Hypothetical protein.
SEQUENCE 208 AA; 22565 MW; EBE3243D9E52094E CRC64;
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                                                                                                                                                                                                                                                                                                       Complete proteome. SEQUENCE 405 AA;
                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR004573; Fmu mtfrase
InterPro; IPR001678; Fmu NCL1/Nop2p.
InterPro; IPR006027; NusB RsmB TIM44.
InterPro; IPR006174; RsmB mtfrase.
InterPro; IPR00051; SAM Bind.
Pfam; PF01189; No11 Nop2_Fmu; 1.
Pfam; PF01029; NusB; 1.
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NCBI_TaxID=37329;
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TIGRFAMs; TIGR00563; rsmB; 1.
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RESULT 5
Q7V3U3_PROMM
Q7V3U3_PROMM
Q7V3U3_PROMM
Q7V3U3_PROMM
ID Q7V3U3;
AC Q7V3U3;
AC Q7V3U3;
DT 01-OCT-2003 (TrEMBLrel. 25,
DT 01-OCT-2003 (TrEMBLrel. 26,
DT 01-MAR-2004 (TREMBLrel. 26,
DT 01-MAR-2001 MARLING
C PROCCHOCCCUS marinus (st
CC PROCCHOCCCUS MARLING
CX NCBI-TAXID=74547;
RN NUCLEOTIDE SEQUENCE.
RX MEDLINE=22825698; PubMed=12
RA ROCAP G., LATIMET F.W., LAM
RA ANIGREN N.A., Arellano A.,
RA ANIGREN N.A., Arellano A.,
RA ANIGREN N.A., Zinser E.W., Chi
RA Webb E.A., Zinser B.W., Chi
RA GO; GO:0016020; C:membrane;
DR GO; GO:0016020; C:membrane;
DR GO; GO:0016020; C:membrane;
DR GO; GO:0016020; C:membrane;
DR GO; GO:001604055; F:phospholi
DR InterPro; IPR000374; PC_tra
DR Pfam; PF01148; CTP transf 1
XW Complete proteome; Hypothet
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SBQUENCE 217 AA; 23832 M
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Matches 7
                                                                                                                                                                                                                                                     Nature 424:1042-1047(2003).

EMBL; 8572210; CAR22421.1; -; Genomic_DNA.

GO; GO:0016020; C:membrane; IEA.

GO; GO:0004605; F:phosphatidate cytidylyltransferase activity; IEA.

GO; GO:0008654; P:phospholpid biosynthesis; IEA.

InterPro; IPR000374; PC_transd.

Pfam; PF01148; CTP_transf_1; 1.

Complete proteome; Hypothetical protein; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MUCLEOTIDE SEQUENCE.

MEDLINS=22825698; PubMed=12917642; DOI=10.1038/nature01947; MEDLINS=22825698; PubMed=12917642; DOI=10.1038/nature01947; Rocap G., Larimer F.W., Lamerdin J.E., Malfatti S., Chain P. Ahlgren N.A., Arellano A., Coleman M., Hauser L., Hess W.R., Johnson Z.I., Land M.L., Lindell D., Post A.F., Regala W., S Shaw S.L., Steglich C., Sullivan M.B., Ting C.S., Tolonen A. Webb E.A., Zinser E.R., Chisholm S.W.;

"Genome divergence in two Prochlorococcus ecotypes reflects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q7V3U3;
01-OCT-2003 (TrEMBLrel. 25,
01-OCT-2003 (TrEMBLrel. 25,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hypothetical protein precursor. OrderedLocusNames=PMT2247;
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Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; AY548438; AAT41885.1; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Stowe-Evans E.L., Ford J., Kehoe D.M.; "Genomic DNA Microarray Analysis: Identification of New Genes Regulated by Light Color in the Cyanobacterium Fremyella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hypothetical protein (Fragment).
Fremyella diplosiphon (Calothrix PCC 7601)
Bacteria; Cyanobacteria; Nostocales; Micro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bacteria; Cyanobacteria; Prochlorales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Prochlorococcus marinus (strain MIT 9313).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
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Pred. No. 60;
2; Mismatches
                                                                 Score 48; DB
Pred. No. 24;
4; Mismatches
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Nat. Biotechnol. 20:1118-1123(2002).

EMBL; ABO15498; AAN53589.1; -; Genomic DNA.
Query Match
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Q55880
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QBEJF9;
01-MAR-2003 (TrEMBLrel. 2
                                                                                                                                                                                                                                           Fung E., Hyman R.W., Rowley D., Bruno D., Miranda M., Ful Wickes B.L., Fu J., Davis R.W.;
"Cryptococcus neoformans serotype D sequencing.";
Submitted (JUL-2004) to the EMBL/Genbank/DDBJ databases.
-I- CAUTION: The sequence shown here is derived from an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cryptococcus neoformans var. neoformans B-3501A.
Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
Tremellomycetidae; Tremellales; Tremellaceae; Filobasidiella.
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13-SEP-2005 (TrEMBLrel.
13-SEP-2005 (TrEMBLrel.
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                                                                   Hypothetical SEQUENCE 4:
                                                                                                                                                                                                                                                                                                                                                                                                                          NUCLEOTIDE SEQUENCE.
STRAIN=B-3501A;
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                                                                                                                                             EMBL;
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                                                                                                                                  preliminary data.
.; AAEY01000024; EAL20751.1; -; Genomic_DNA.
                                                                                                                                                                                                             EMBL/GenBank/DDBJ whole genome shotgun (WGS)
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Length 426;
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RESULT 9
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Q59SA1 1 10-MAY-2
DT 10-
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ID 0984Z3 SALEN PRELIMINARY;
AC 0984Z3;
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Best Local S
Matches 7
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          enteritidis pathogenicity islet encoding an Mol. Microbiol. 33:791-805(1999).

EMBL; AF102556; AAD51877.1; -; Genomic_DNA.
GO; GO:0016020; C:membrane; IEA.
InterPro; IFR003838; DUF214.

Pfam; PF02687; FtsX; 1.
  Dungan J., Kuo A., Newport G., Lan C Roberts J., Persson K., Donnelly S., Jones T., Scherer S., Agabian N.;
                                                                                                                                                                                       Jones T., Federspiel N.A., Chibana I
Magee B.B., Newport G., Thorstenson
Davis R.W., Scherer S.;
                                                                                                                                                                                                                PubMed=15123810; DOI=10.1073/pnas.0401648101;
Jones T., Federspiel N.A., Chibana H., Dungan J.,
Magee B.B., Newport G., Thorstenson Y.R., Agabian
                                                                                                                                                                                                                                                                                                                                                                                 Candida albicans SC5314.
Eukaryota; Fungi; Ascomycota;
Saccharomycetales; mitosporic
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hypothetical protein. ORFNames=CaO19.10974;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q59SA1 CANAL PRELIMINARY;
Q59SA1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN-S1400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Enterobacteriaceae; Salmonella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
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10-MAY-2005 (TrEMBLrel.
10-MAY-2005 (TrEMBLrel.
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"Identification and molecular characterization of a novel Salmonella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=592;
                                                                         STRAIN=SC53
                                                                                                                                              "The diploid genome sequence of Candida albicans."; Proc. Natl. Acad. Sci. U.S.A. 101:7329-7334(2004).
                                                                                                                                                                                                                                                                                         STRAIN=SC5314;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
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                                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=237561;
                                                                                                 NUCLEOTIDE
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8; Conserv
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                                                                                                 SEQUENCE
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87.5%;
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Pred. No.
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i; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                 Saccharomycotina; Saccharomycetes; Saccharomycetales; Candida.
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                                                   . -Y.,
                               .-Y., Iijima C., Adı
Favoreto S., Tzung
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Q8GMI3_STRGL
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Best Local S
Matches 7
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Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C -i- SIMILARITY: Belongs to the ABC transporter family.

EMMBJ; AY048670; AAL06654.1; -; Genomic_DNA.

R GO; GO:0016020; C:membrane; IEA.

R GO; GO:0016524; F:ATPase activity; IEA.

R GO; GO:0016887; F:ATPase activity; IEA.

R GO; GO:0016887; F:hydrolase activity; IEA.

R GO; GO:0006810; P:transport; IEA.

R GO; GO:0006810; P:transport; IEA.

R GO; GO:0006910; ABC_transp_like.

PROSITE; PS0005; ABC_tran; 2.

R PROSITE; PS00211; ABC_TRANSPORTER 1; 1.

R PROSITE; PS00211; ABC_TRANSPORTER 2; 2.

SEQUENCE 784 AA; 83960 MW; DABC2D965720A5E7 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UvrA-like drug resistance pump.

Streptomyces globisporus.

Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.

MCBI_TaxID=1908;
Candida albicans SC5314.

Bukaryota; Fungi; Ascomycota;
Saccharomycetales; mitosporic
NCBI_TaxID=237561;
                                                                                           Hypothetical protein. ORFNames=CaO19.3470;
                                                                                                                                         10-MAY-2005 (TrEMBLrel.
10-MAY-2005 (TrEMBLrel.
                                                                                                                                                                                                               Q59870_CANAL
Q59870;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Liu W., Christenson S.D., Standage S., ("Biosynthesis of the enediyne antitumor Science 297:1170-1173(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=22171413; PubMed=12183628; DOI=10.1126/science.1072110; Liu W., Christenson S.D., Standage S., Shen B.;
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01-MAR-2003 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
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SEQUENCE 7
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6; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                            PDWQIWAKSGRLD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  775 AA; 8
                                                                                                                                                                                       (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
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23, Last sequence update)
25, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Score 48; DB; Pred. No. 87; 1; Mismatches
                                                                                                                                         Last sequence update)
Last annotation update)
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Pred.
                        Saccharomycotina; Saccharomycetes; Saccharomycetales; Candida.
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EPDWRLWG

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RESULT 12
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Best Local S
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Matches 6
                                                                                                                                                                                        MEDLINE=21534948; PubMed=11677609; DOI=10.1038/35101614; McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Le Courtney L., Porwollik S., Ali J., Danes A., Du F., Hou S. Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mul Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhan Waterston R., Wilson R.K.;
                                                                                                                                                                                                                                                                                                                                                                     01-MAR-2002 (TrEMBLrel. 20, Creat
01-MAR-2002 (TrEMBLrel. 20, Last
01-MAR-2004 (TrEMBLrel. 26, Last
Putative inner membrane protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 preliminary data.
EMBL; AACQ01000155; EAK93328.1; -; Genomic_DNA.
Hypothetical protein.
SEQUENCE 793 AA; 90808 MW; 870A0A0508ADFB27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN-SC5314;
PubMed=15123810; DOI=10.1073/pnas.0401648101;
Phomeor Federspiel N.A., Chibana H., Dungan
                                                                                                                                                                                                                                                                                                                                                                                                                      Q8ZR90 SALTY
Q8ZR90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Annotation of the Genome of Candida albicans.",
Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.
-i- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Jones T., Federspiel N.A.,
Magee B.B., Newport G., Th
Davis R.W., Scherer S.;
                                                                                                               Nature 413:852-856(2001).
EMBL; AE008719; AAL19462.1;
GO; GO:0016020; C:membrane;
InterPro; IPR003838; DUF214.
                                                                                                                                                                                                                                                                     STRAIN=LT2
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                                                                                                                                                                                                                                                                                                                                Salmonella typhimurium.
Bacteria; Proteobacteria; Gammaproteobacteria;
                                                                                                                                                                                                                                                                                                                                                         Name=ybbP; OrderedLocusNames=STM0508;
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Proc. Natl. Acad. Sci.
                                                                                         Complete
                                                                                                   Pfam; PF02687; FtsX; 2.
                                                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                       NCBI_TaxID=602;
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NUCLEOTIDE SEQUENCE.
                                                                                                                                                                              'Complete genome sequence
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. Natl. Acad. Sci. U.S.A. 101:7329-7334(2004).
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87.5%;
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                          Score 48; DB
Pred. No. 89;
0; Mismatches
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Pred. No. 88;
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                                                                             72A29069A7021F11 CRC64;
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1,68
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R., Agabian
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N., Mag
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N., Mulvaney E.,
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S., Layman D.,
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RESULT 14
Q6JHZ8 HUMAN
Q6JHZ8;
ID Q6JHZ8;
AC Q6JHZ8;
DT 05-JUL-2004 (TYEMBLY). 27, C2
DT 05-JUL-2004 (TYEMBLY). 27, L2
DE HCV-E2 binding protein 1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata;
OC Mammalia; Eutheria; Euarchonto
OC NCBLI TAXID-9606;
RN (1)
RP NUCLEOTIDE SEQUENCE.
RA Zhang J., Cheng J., Wang L., S
RL Submitted (NOV-2003) to the EN
EMBL; AY459290; AAR23235.1; -;
SQ SEQUENCE 61 AA; 6607 MW; 4
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ID Q6ZDZ2 ORYSA
ID Q6ZDZ2 O
AC Q6ZDZ2 OT 05-JUL-2
DT 
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RESULT 15
Q7UG34 RHOBA
ID Q7UG34 RHOBA PRELIMINARY;
AC Q7UG34;
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Best Local S
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A SASAKI T., MATSUMOCTO T., Yamamocto K.;

A SASAKI T., MATSUMOCTO T., Yamamocto K.;

A SASAKI T., MATSUMOCTO T., Yamamocto K.;

T "Oryza sakiva nipponbare(GA3) genomic DNA, chromosome 7, PAC

T clone:P0507H12.";

I Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.

R EMBL; AP004338; BAC83511.1; -; Genomic_DNA.

R GGammene; OSZDZ2; -.

R GGamene; OSZDZ2; -.

R GG; GO:0004519; F:endonuclease activity; IEA.

R GG; GO:0016787; F:hydrolase activity; IEA.
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Best Local Similarity
Matches 9; Conserv
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Oryza sativa (japonica cultivar-group).
Oryza sativa (japonica cultivar-group).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE.

Zhang J., Cheng J., Wang L., Shao Q., Lu Y., Chen T.,

Zhang J., Cheng J., Wang L., Shao Q., Lu Y., Chen T.,

Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databas

EMBL; AY459290; AAR23235.1; -; mRNA.

SEQUENCE 61 AA; 6607 MW; 4E162AA3444E7A56 CRC64;
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Q6ZDZZ;
Q6ZDZZ;
Q5-JUL-2004 (TrEMBLrel. 27, Created)
Q6ZDZZ;
Q6ZDZZ;
Q7 Created)
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Q8 Created)
Q8 Created)
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[1]
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Pred. No. 9.3;
0; Mismatches
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Pred. No. 70;
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J databases.
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Search completed: December 4,
Job time: 139.875 secs
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Best Local S
Matches 7
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                                                                                                                                                           Proc. Natl. Acad. Sci. U.S.A. 100:8298-8303(2003).

EMBL; BX294147; CAD78495.1; -; Genomic_DNA.

Complete proteome; Hypothetical protein.

SEQUENCE 364 AA; 40878 MW; 2284324F0722E6AB CRC64;
                                                                                                                                                                                                                                       MEDLINE=22735913; PubMed=12835416; DOI=10.1073/pnas.1431443100; Gloeckner F.O., Kube M., Bauer M., Teeling H., Lombardot T., Ludwig W., Gade D., Beck A., Borzym K., Heitmann K., Rabus R., Schlesner H., Amann R., Reinhardt R.;
                                                                                                                                                                                                              "Complete genome sequence of the marine planctomycete Pirellula strain 1.";
                                                                                                                                                                                                                                                                                             STRAIN=1
                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=117;
                                                                                                                                                                                                                                                                                                                                                   Planctomycetaceae; Pirellula.
                                                                                                                                                                                                                                                                                                                                                               Bacteria; Planctomycetes;
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                                                    DWLLWADQHKVD 173
                                                                               DWLLWGDRGALD 14
                                                                                                         Conservative
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25,
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               2005, 04:52:25
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Last
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     December 4, 2005, 03:59:51 ; Search time 32.1875 Seconds (without alignments) 38.528 Million cell updates/sec
Issued Parents AA:*

1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*

2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*
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89
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	ტ	υ	4.	w	2	۲	No.	
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44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	45.5	46.1	46.1	46.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.8	48.3	48.3	48.3	48.3	9	50.6	w	Match	de .
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21,	1, 2	23, App	22, App	e 21	Sequence 1, Appli	120	2779	Sequence 29, Appl	20574,	Sequence 7786, Ap	4, App	1290	80,	80, App	80,	80,	80, A	Sequence 426, App	Ф	Sequence 13627, A	9984,	Sequence 196, App	194,	22630,	Sequence 7066, Ap	Sequence 12532, A	Description	

Query Match

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45	44	43	42	41	40	39	38	37	36	35	34	S S	32	31	30	29	α.
39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	40	40	40
43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	44.9	44.9	44.9
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US-09-248-796A-23020	US-09-134-000C-5594	US-09-004-729-8	US-08-749-699-8	US-09-004-731-8	US-09-489-039A-7558	US-09-270-767-45277	US-09-902-540-14417	US-10-084-843-277	US-10-193-002-272	US-09-072-967-277	US-09-072-596-272	US-09-750-754-44	US-09-181-083-44	US-08-321-625-44	US-09-165-396-3	US-09-298-404-23	US-U9-290-4U4-22
Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	aprianhae
23020, A	5594, Ap	8, Appli	8, Appli	8, Appli	7558, Ap	45277, A	14417, A	277, App		277, App	•	44, Appl		44, Appl	3, Appli	23, App1	1000

# ALIGNMENTS

RESULT 1

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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIT TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION UNMEER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
FRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER: OF SEQ ID NOS: 8344
SEQ ID NO 7066
LENGTH: 614
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-7066
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 12532, Application US/09489039A

Sequence 12532, Application US/09489039A

Patent No. 6610836

PATENTAL INFORMATION:

NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: NUCLEIC ACID AND THERAPEUTICS

PATERERERENCE: 2709.2004001

PATERETERENCE: 2709.2004001

CURRENT PATLING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US/09/489,039A

CURRENT PATLING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 12532

LENGTH: 229

TYPE: PAT

COLUMNIA: APPLICATION SERVICES AND THERAPEUTICS

PATLING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342
                                                                                                                                                                                                                                                                                                                                                                                    Sequence 7066, Application US/09543681A Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best
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Local Similarity 57.1%; Pred. No.
195 8; Conservative 1; Mismatc
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  Score 45;
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Length 614;
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APPLICANT: Grandi, Guido
TITLE OF INVENTION: Neisserial Antigens
FILE REFERENCE: CHIRO160
CURRENT APPLICATION NUMBER: US/09/303,518D
CURRENT FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 1098
SOFTWARE: PatentIn version 3.1
SEQ ID NO 194
LENGTH: 345
RESULT 5
US-09-303-518D-196
; Sequence 196, Application US/09303518D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-303-518D-194; Sequence 194, Application US/09303518D; Patent No. 6914131
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US-09-248-796A-22630
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT PILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1998-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR FILING DATE: 1998-02-13
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 22630
                                                                                                                                                              Query Match 48.
Best Local Similarity 70.
Matches 7; Conservative
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Scarlato, Vincenzo
APPLICANT: Masignani, Vega
APPLICANT: Rappuoli, Rino
APPLICANT: Pizza, Mariagrazia
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TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION:
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Pred. No.
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APPLICANT: Scarlato, Vincenzo
APPLICANT: Masignani, Vega
APPLICANT: Masignani, Vega
APPLICANT: Rappuoli, Rino
APPLICANT: Pizza, Mariagrazia
APPLICANT: Pizza, Mariagrazia
APPLICANT: Grandi, Guido
TITLE OF INVENTION: Neisserial Antigens
FILE REFERENCE: CHIRO160
CURRENT APPLICATION NUMBER: US/09/303,518D
CURRENT FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 1098
SOFTWARE: Patentin version 3.1
SEQ ID NO 196
LENGTH: 383
TYPE: PRT
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US-09-949-016-9984
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CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241.755
PRIOR FILLING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILLING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILLING DATE: 2000-09-08
Sequence 13627, Application US/09902540

PATENT NO. 6833447

GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences of FILE REFERENCE: 38-10(15849)B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 9984
LENGTH: 638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9984,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No. 6914131 GENERAL INFORMATION:
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TITLE OF INVENTION: POLYMORPHIENS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Neisseria meningitidis
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les 7; Conservation
                                                                                                                                                                                                                                                                                                                                                                    48.3%;
Local Similarity 85.7%;
es 6; Conservation
                                                                                                                                                                                                                                                                                           558 EPDWLTW 564
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Pred. No.
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Pred. No. 1.4e+02;
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APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Raodoh
APPLICANT: Mendamath, Raodoh
APPLICANT: Mendamath, Raodoh
APPLICANT: Benson, Darin R.
APPLICANT: Benson, Darin R.
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.475C10
CURRENT APPLICATION NUMBER: US/09/854,133
CURRENT APPLICATION NUMBER: US/09/854,133
CURRENT FILING DATE: 2001-05-11
NUMBER OF SEQ ID NOS: 735
SOPTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 426
LENGTH: 174
TYPE: PRT
CORGANISM: Homo sapiens
US-09-854-133-426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5
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Best Local Similarity
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CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 13627
LENGTH: 732
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 18301, Application US/09252991A Patent No. 6551795
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                     Sequence 426, Application US/09854133 Patent No. 6759508
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Myxococcus xanthus -09-902-540-13627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/094,190 PRIOR FILING DATE: 1998-07-27
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TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
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63.6%;
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Pred. No. 1.6e+02;
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Pred. No. 79;
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RESULT 11 US-08-290-448A-80

Sequence 80, Application US/08290448A Patent No. 5698204
GENERAL INFORMATION:

APPLICANT:

Rogers, Bruce Klapper, David ( Rafnar, Thorunn

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RESULT 10
US-08-290-448A-80
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Best Local Similarity 70.0
                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,448A
FILING DATE: August 15, 1994
PRIOR APPLICATION NUMBER: US 07/529,951
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: May 1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: MAY CANDAMATION
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 80, Application US/08290448A Patent No. 5676954
                                                                                                     Query Match
                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                         TELEPHONE: (617)227-74
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IM
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Rogers, Bruce
APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
                                                                                                                                                       MOLECULE TYPE: protein
                                                         47.2%;
Local Similarity 46.7%;
hes 7; Conservative
                                                                                                                                                                          TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE:
                                                                                                                                                                                                          LENGTH: 388 amino acids
323 EPEWMTWNWRTQNDV 337
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                                  1 EPDWLLWGDRGALDV 15
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60 State Street, suite 510
                                                                                                                                                                                                                                                             (617) 227-5941
                                                                                                                                                                                                                                                                                 (617) 227-7400
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70.0%;
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    Mismatches

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Pred. No.
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Pred. No. 49;
                                                                      Mismatches
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                                                                                                       Length 388;
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Mei-chang

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RESULT 12
US-08-175-069A-80
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PILING DATE: August 15,1994
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 07/529,951
FILING DATE: May 29,1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: Maxch 17, 1989
APPLICATION HARCH 17, 1989
ATTORNEY,AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN
                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acid
           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING PATENTA Release #1.0, Version #1.25
CURRENT APPLICATION DATA
APPLICATION NUMBER: US/08/175,069A
                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSES: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: pro
                                                                                                                                                                                                                                                                  APPLICANT: Kuo, Mei-chang
TITLE OF INVERTION: Allergenic Proteins From Ragweed and Uses
NUMBER OF SEQUENCES: 93
                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION: TELEPHONE: (617)227-7400
                                                                                                                                                                 STATE: March
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                                                                                                                                         ZIP: 02109-1875
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                                                                                                                                                        COUNTRY:
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5776761
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Klapper, David G
Rafnar, Thorunn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    388 amino acids
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                                                                                                                                                           USA
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December 29, 1993
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Pred. No. 1.
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RESULT 13
US-08-461-939B-80
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
PILING DATE:

PRIOR APPLICATION DATA:

PRIOR APPLICATION UNUMBER: US 08/464,000

FILING DATE: 05-JUN-1995

APPLICATION NUMBER: US 08/290,448

FILING DATE: 15-AUG-1994

APPLICATION NUMBER: US 07/529,951

FILING DATE: 19-MAX-1990

APPLICATION NUMBER: US 07/325,365

FILING DATE: 17-MAR-1989

APPLICATION NUMBER: US 07/325,365

FILING DATE: 17-MAR-1989

APPLICATION NUMBER: 36,207

REGISTRATION NUMBER: 36,207

REFERENCE/DOCKET NUMBER: IMI-018CNDV
TELEPHONE: (617) 227-7400

TELEPHONE: (617) 227-740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/529
FILING DATE: May 29, 1990
APPLICATION NUMBER: US 07/325
FILING DATE: March 17, 1989
ATTORNEY AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
07/529,951
                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD,
STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Klapper, David C
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
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TYPE: amino acid
TOPO:
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                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Boston
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Similarity 46.7%;
7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USA
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Protein Allergen Using Peptides Which
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17, 1989
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Pred. No. 1.2e+02;
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US-08-464-000-80
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                                                                                                                                             ; MOLECULE TYPE: protein US-08-464-000-80
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Best Local S
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                                                                                        Query Match
Best Local (
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FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/290,448
FILING DATE: 15-AUG-1994
APPLICATION NUMBER: US 07/529,951
FILING DATE: 29-MAY-1990
APPLICATION NUMBER: US 07/325,365
FILING DATE: 17-MAR-1989
ATTORNEY/AGENT INFORMATION:
NAME: Amy E. Mandragouras
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-018CN2
TREICOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patent No.
                                                                      Matches
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APPLICANT: ROGERS
                                                                                                                                                                                                                TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 6
SEQUENCE CHARACTERISTICS:
LENGTH: 388 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Klapper, David G.
APPLICANT: Rafnar, Thorunn
APPLICANT: Kuo, Mei-chang
TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Floppy disk
COMPUTER: BM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
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TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
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Local Similarity 46.7%;
les 7; Conservative
                                                                   / Match 47.2%; Score 42; DB 2; Length 388 Local Similarity 46.7%; Pred. No. 1.2e+02; nes 7; Conservative 2; Mismatches 6; Indels
                                                                                                                                                                              TYPE: amino acid
TOPOLOGY: linear
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ZIP: 02109-1875
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323
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                                  1 EPDWLLWGDRGALDV 15
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EPEWMTWNWRTQNDV 337
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                                                                                                                                                                                                                                                                                           (617) 227-7400
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Pred. No.
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FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 12903
LENGTH: 493
TYPE: PRT
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                                                                                                                                                                                                                                                                        ; ORGANISM: Klebsiella pneumoniae US-09-489-039A-12903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
US-09-489-039A-12903
Search completed: December 4, Job time: 33.1875 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 12903, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
ETIT DESERVE. 2700 2700
                                                                                                                                                                                 Matches
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                         2005, 04:09:44
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Minimum DB seq length: 0
Maximum DB seq length: 200000000
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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89
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Published Applications AA Main:*

1: /cgn2_6/ptcdata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptcdata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptcdata/1/pubpaa/US08_PUBCOMB.pep:*

4: /cgn2_6/ptcdata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptcdata/1/pubpaa/US10B_PUBCOMB.pep:*

6: /cgn2_6/ptcdata/1/pubpaa/US11_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

26 27	25 4	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	œ	7	6	ຫ	4	ω	2	<u>.</u>	No.	Result
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	Sequence 13497, A			Sequence 20876, A	179634		e 1674,		Sequence 42189, A	Sequence 68332, A	Sequence 240160,	Sequence 12420, A	Sequence 52883, A	13436	160,	27, F		æ	200,	Sequence 197, App	e 194,	e 131,	O	uence 129,	Description	

45	44	43	42	41	40	39	38	37	36	35	34	ω u	32	31	30	29	
42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	
397	397	380	363	275	245	211	198	175	174	174	174	154	131	116	77	77	
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US-10-809-689-97	US-09-847-208-17	US-10-369-493-20944	US-10-282-122A-50322	US-10-425-114-66625	US-10-437-963-108592	US-10-450-763-37978	US-10-767-701-34131	US-10-450-763-31629	US-10-144-649A-426	US-09-854-133-426	US-09-738-973-426	US-10-312-354-26	US-09-864-408A-4566	US-10-424-599-206981	US-10-092-154-922	US-09-764-847-922	
Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	
97, Appl	17, Appl	20944, A	50322, A	66625, A	108592,	37978, A	34131, A	31629, A	426, App	426, App	•	26, Appl	4566, Ap	206981,	922, App	•	

## ALIGNMENTS

RESULT 1 US-10-632-706-129

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                                                                                                                                                                                                                                                                                                         RESULT 2
US-10-632-706-130
                                                                                                                                                                                         Sequence 130, Application US/10632706
Publication No. US20040175385A1
GENERAL INFORMATION:
APPLICANT: WARKS, JAMES D.
APPLICANT: AMERSDORFER, PETER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOPTWARE: PatentIn version 3.2
SEQ ID NO 129
LENGTH: 15
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publication No. US20040175385A1
GENERAL INFORMATION:
APPLICANT: MARKS, JAMES D.
APPLICANT: AMERSDORFER, PETER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
TITLE OF INVENTION: THEKAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM TITLE OF INVENTION: NEUROTOXINS FILE REFERENCE: 407T-895120US CURRENT APPLICATION NUMBER: US/10/632,706 CURRENT FILING DATE: 2003-08-01 PRIOR APPLICATION NUMBER: US 60/400,721 PRIOR PRIOR DATE: 2002-08-01 PRIOR APPLICATION NUMBER: US 09/144,806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR FILING DATE: 2002-08-01
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 1998-08-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: AMERSDORFER, PETER
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
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Local Similarity 100.0%;
hes 15; Conservative 0
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1 BPDWLLWGDRGALDV 15
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Pred. No. 2.8e-06;
D; Mismatches 0;
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TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM; TITLE OF INVENTION: NEUROTOXINS; FILE REFERENCE: 407T-895120US; CURRENT EPLICATION NUMBER: US/10/632,706; CURRENT FILING DATE: 2003-08-01; PRIOR APPLICATION NUMBER: US 60/400,721; PRIOR APPLICATION NUMBER: US 60/144,806; PRIOR FILING DATE: 1998-08-31; NUMBER OF SEQ ID NOS: 278; SOFTWARE: PATENTIN VETSION 3.2; SEQ ID NO 131; LENGTH: 15
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US-10-632-706-130
                                                                                                                                                                                                                                                                                                                                                                           US-10-632-706-194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-632-706-131
                                                                                                                                                                              Sequence 194, Application US/10632706
Publication No. US20040175385A1
GENERAL INFORMATION:
APPLICANT: MARKS, JAMES D.
APPLICANT: AMERSDORFER, PETER
APPLICANT: AMERSDORFER, PETER
APPLICANT: INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
TILE REFERENCE: 407T-895120US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: PatentIn version 3.2
SEQ ID NO 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 131, Application US/10632706 Publication No. US20040175385A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local &
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                         CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR FILING DATE: 2002-08-01
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 1998-08-31
SOFTWARE: PatentIn version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: single chain antibody fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    h 100.0%; Score 89; DB 4; Length 15; Similarity 100.0%; Pred. No. 2.8e-06;
                        SEQ ID NOS: 278
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US-10-632-706-197
; Sequence 197, Applica
; Publication No. US200
; Publication PORMATION;
; GENERAL INFORMATION;
; APPLICANT; MARKS, JA
; APPLICANT; AMERSDOR
Sequence 200, Application US/10632706
Publication No. US20040175385A1
GENERAL INFORMATION:
APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, DATER
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 99/144,806
PRIOR FILING DATE: 1908-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: Patentin version 3.2
SEQ ID NO 200
LENGTH: 15
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US-10-632-706-200
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LENGTH: 15
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROPOXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR FILING DATE: 2002-08-01
PRIOR FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 278
SOPTWARE: Patentin version 3.2
SEQ ID NO 197
LENGTH: 15
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Best Local Similarity
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 89; DB 4;
100.0%; Pred. No. 2.8e-06;
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Pred. No. 2.8e-06;
); Mismatches 0;
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                                                                                                                                                                                                                                                     ANTIBODIES THAT NEUTRALIZE BOTULINUM
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Mon

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Sequence 203, Application US/10632706

Publication No. US20040175385A1

GENERAL INFORMATION:
APPLICANT: MARKS, JAMES D.
APPLICANT: MARKS, JAMES D.
TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
TITLE OF INVENTION: NEUROTOXINS
FILE REFERENCE: 407T-895120US
CURRENT APPLICATION NUMBER: US/10/632,706
CURRENT FILING DATE: 2003-08-01
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 60/400,721
PRIOR APPLICATION NUMBER: US 09/144,806
PRIOR FILING DATE: 2002-08-31
NUMBER OF SEQ ID NOS: 278
SOFTWARE: Patentin version 3.2
SEQ ID NO 203
                                                                                                                                                                                      Sequence 50690, Application US/10450763

Publication No. US20050196754A1

GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2001-03-30
PRIOR FILING DATE: 2000-03-31
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Best Local Similarity
Matches 15; Conserv:
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US-10-450-763-50690
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                                                                      NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 50690
LENGTH: 334
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Best Local
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                                                                                                                                                     PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
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ORGANISM: Artificial
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: single chain antibody fragment
                                                          TYPE: PRT
                                 ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 15
NAME/KEY: DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
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Pred. No. 0.00033;
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Pred. No. 2.8e-06;
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APPLICANT: Stein, Joshua C.

APPLICANT: Valentin, Henry E.

APPLICANT: Venkatesh, Tyamagondlu V.

APPLICANT: Venkatesh, Tyamagondlu V.

ITILE OF INVENTION: Tocopherol biosynthesis related genes and used thereof FILE REFERENCE: Ren-01-125

CURRENT FILLIGATION NUMBER: US/10/634,548

CURRENT FILLING DATE: 2003-08-05

PRIOR APPLICATION NUMBER: us 60/400,689

PRIOR FILLING DATE: 2002-08-05

NUMBER OF SEQ ID NOS: 79

SOFTWARE: Patentin version 3.2

SEQ ID NO 27

LENGTH: 201

TYPE: PRT

ORGANISM: Prochlorococcus marinus-MIT9313

US-10-634-548-27
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; OTHER INFORMATION: Xaa = X or *
US-10-450-763-50690
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                                 ; Sequence 160, Applica
; Publication No. US200
; GENERAL INFORMATION:
; APPLICANT: SHEN, BEN
; APPLICANT: LIU, WEN
; APPLICANT: CHRISTEN
; APPLICANT: CHRISTEN
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                                                                                                                                                           RESULT 10
US-10-159-257A-160
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Publication No. US20040045051A1
GENERAL INFORMATION:
APPLICANT: No. US20040045051A1ris, Susan
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APPLICANT:
APPLICANT:
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TITLE OF INVENTION: GENE CLUSTER FOR PRODUCTION OF THE ENEDIYNE ANTITUMOR
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LOCATION: (44)..(307)
OTHER INFORMATION: Sodium:neurotransmitter symporter family domain identified by
OTHER INFORMATION: PFam, accession name SNF, E-value=2e-76, PFam score of 267.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Sodium:neurotransmitter symporter family proteins domain OTHER INFORMATION: identified by eMATRIX, accession number BL00610D, p-value=2.000e-OTHER INFORMATION: 25, raw score of 20.97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: (267)..(320)
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Local Similarity 53.3%;
Les 8; Conservative
                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                           123 PNWLIWGQRKSI 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       263 KPDWSSWGPSGWIDV 277
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                                                                                                                                                                                                                                                                                    2 PDWLLWGDRGAL 13
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Hirshberg, Joseph
Karunanandaa, Balasulojini
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No. US20040045051A1
                     STANDAGE,
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Abad, Mark Scott
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Moshiri, Farhad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eilers, Robert
                                        CHRISTENSON, STEVEN D
                                                                                                                      Application US/10159257A
o. US20040161828A1
                                                                                                                                                                                                                                                                                                                          Conservative
                                                             WEN
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Pred. No.
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US-10-159-257A-160
                                                                                                                                              US-10-450-763-52883
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CURRENT APPLICATION NUMBER: US/10/159,257A
CURRENT FILING DATE: 2002-05-31
PRIOR APPLICATION NUMBER: 09/478,188
PRIOR FILING DATE: 2000-01-05
PRIOR APPLICATION NUMBER: 60/115,434
PRIOR FILING DATE: 1999-01-06
NUMBER OF SEQ ID NOS: 207
SOFTWARE: Patentin Ver. 2.1
Sequence 52883, Application US/10450763
Publication No. US20050198754A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND :
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 134365
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Publication No. US20040123343A1
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LENGTH: 775
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Best Local
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Best Local :
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APPLICANT:
APPLICANT:
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(53221)B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: ANTIBIOTIC C-1027 FILE REFERENCE: 407T-896020US
                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: OTYZA BALIVA
PEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_36146C.1.pep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Streptomyces globisporus
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   / Match 53.9%;
Local Similarity 53.8%;
les 7; Conservative
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Barbazuk, Brad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wu, Wei
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                                                                                                                                                                                                                                                                                                       53.4%;
50.0%;
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Pred. No. 2e
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Pred. No.
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US-10-425-115-240160
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US-10-369-493-12420
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APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES FILE REFERENCE: 38-10 (52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 12420
LENGTH: 904
                                                                                                                                                                Sequence 240160, Application US/10425115 Publication No. US20040214272A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 12420, Application US/10369493 Publication No. US20030233675A1 GENERAL INFORMATION:
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PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOPTWARE: CUSTOM
SEQ ID NO 52883
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             APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
CURRENT APPLICATION NUMBER: US/10/425,115
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NAME/KEY: misc_feature
LOCATION: (1)...(455)
OTHER INFORMATION: Xaa = X or * as defined in Table 2
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 455
                                                                                                                                                                                                                                                                                                                                                                                                                    Local
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70.0%;
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Pred. No. 2.1e+02;
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Pred. No. 1.1e+02;
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                                                            Other Molecules Associated
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2003-04-28

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Query Match
Best Local Similarity
Marches 9; Conserva
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US-10-282-122A-68332
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; TYPE: PRT ; ORGANISM: Pseudomonas putida US-10-282-122A-68332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT FILING DATE: 2003-0-NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 240160
LENGTH: 159
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APPLICANT: Wang, Li
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                                                                           SOFTWARE: PatentIn version 3.1 SEQ ID NO 68332
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APPLICANT:
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APPLICANT:
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APPLICANT:
                                                                                                              PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/257,931
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LOCATION: (1)..(159)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
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                                                         ENGTH:
                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 60/230,347 FILING DATE: 2000-09-09 APPLICATION NUMBER: 60/242,578
                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 60/207,727
FILING DATE: 2000-05-26
APPLICATION NUMBER: 60/230,335
FILING DATE: 2000-09-06
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FILING DATE: 2000-11-27
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PGRLLWGRRGAL 46
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Zyskind, Judith
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Malone, Cheryl
Haselbeck, Robert
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Yamamoto, Robert
Forsyth, R.
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Trawick, John
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dio, Carlos
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75.0%;
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                                       Query Match
Best Local S
Matches 7
221 PDWLLWTPAG 230
                                     l Similarity
7; Conserva
                2 PDWLLWGDRG 11
                                      Conservative
                                                  50.6%;
70.0%;
                                      Score 45; DB 4; Length 372;
Pred. No. 1.8e+02;
0; Mismatches 3; Indels
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                                         Gaps
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Search completed: December 4, Job time : 121.5 secs 2005, 04:37:43

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Post-processing: Minimum Match 0%
Maximum Match 100%
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seq length: 2000000000
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89
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16.417 Million cell updates/sec
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             EPDWLLWGDRGALDV 15
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	œ	7	თ	ហ	4	ω	2	<b>L</b>	No.	Result
34	34.5	34.5	35	35	35	35	35	•	35.5	•	35.5	36	36	36	36	36	37	38	38	38.5	38.5	40.5	41	43	Score	
38.2	38.8	38.8	9	9	9	9	•	9	9	9	9.		0	40.4	٠	40.4	41.6		42.7	43.3	43.3	45.5	46.1	48.3	Match	Ouerv
251	1613	1613	551	530	401	350	239	380	344	247	158	1857	1857	428	322	225	344	251	248	1114	1075	125	251	383	Length	
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US-11-054-515-1079		US-11-108-528-84	US-10-793-626-1668	US-10-980-388-62	US-10-510-386-68	US-10-467-657-5824	US-10-957-569-54	US-10-624-932-20	US-10-821-234-923	US-10-793-626-1466	US-10-510-386-128	US-11-057-058-61	US-11-057-058-60	US-10-793-626-484	US-10-467-657-1006	US-10-821-234-1116	US-10-967-527A-24	US-11-054-515-944	US-11-054-515-1679	US-11-174-150-35	US-11-174-150-34	US-10-821-234-1277	US-11-054-515-1084	US-10-467-657-5602	ID	
Sequence 1079, Ap	86,	84, A	Sequence 1668, Ap		Sequence 68, Appl	5824	Sequence 54, Appl	Sequence 20, Appl	923,	1466,	128, 1	Sequence 61, Appl	60,	484,	Sequence 1006, Ap	Sequence 1116, Ap	24, 4	Sequence 944, App	1679	Sequence 35, Appl	34, Ar	1277,	1084,	Sequence 5602, Ap	tion	

45	44	43	42	41	40	9	38	37	36	35	34	33	32	31	30	29	28	27	Ċ
33	33	33	33	33	33	<b>ω</b>	33	33.5	33.5	34	34	34	34	34	34	34	34	34	•
37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.6	37.6	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	00.1
248	248	248	248	248	247	177	91	249	137	2725	820	616	613	486	274	269	253	253	141
7	7	7	7	7	7	თ	σ	7	σ	7	7	σ	0	σ	7	7	7	7	
US-11-054-515-984	US-11-054-515-980	US-11-054-515-965	US-11-054-515-953	US-11-054-515-877	US-11-054-515-1307	US-10-980-388-95	US-10-467-657-1052	US-11-054-515-649	US-10-821-234-882	US-11-113-424-52	US-11-147-047-31	US-10-131-826A-206	US-10-131-826A-190	US-10-821-234-1063	US-11-015-546A-12	US-11-015-546A-10	US-11-054-515-1069	US-11-015-546A-2	
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	•
984, App	-	•	•	877, App	1307, Ap		1052, Ap	649, App	882, App	52, App1	31, Appl	206, App	190, App	1063, Ap	12, App1	10, Appl	1069, Ap	2, Appli	

# ALIGNMENTS

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CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 5602
LENGTH: 383
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US-11-054-515-1084
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                Sequence 1084, Application US/11054515
Publication No. U32005025532A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-06-18
PRIOR PILING DATE: 2004-06-18
PRIOR FILING DATE: 2004-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 5602, Application US/10467657
Publication No. US20050260581A1
GENERAL INFORMATION:
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APPLICANT: FONTANA MARIA RITA
APPLICANT: FIZZA MARIAGIRAZIA
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE:
PRIOR APPLICATION NUMBER: 10/293,418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 70.0%; Pred. No. 3.8; 1es 7; Conservative 2. Minner.
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FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt SEQ_genes Version 1.0
SEQ ID NO 1277
LENGTH: 125
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US-11-174-150-34
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US-10-821-234-1277
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PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR FILING DATE: 2000-10-17
                                                                             Sequence 34, Application US/11174150 Publication No. US20050260714A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1277, Application US/10821234
Publication No. US20050255114A1
GENERAL INFORMATION:
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Best Local Similarity
Matches 7; Conserv
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Best Local Similarity 46.2%;
Matches 6; Conservative
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SEQ ID NO 1084
APPLICANT: Agarwal, Pankaj
APPLICANT: Murdoch, Paul R.
APPLICANT: Rizvi, Safia K.
APPLICANT: Smith, Randall F.
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APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis
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APPLICANT: Stache-Crain, Birgit
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APPLICATION NUMBER: 09/880,748
FILING DATE: 2001-06-15
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APPLICATION NUMBER: 60/331,469
FILING DATE: 2001-11-16
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                                                                                                                                                                                                                                                                                                        Conservative
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63.6%;
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Pred. No. 3.
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Pred. No.
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FILE OF INVESTION. NOVEL COMPOUNDS
FILE REFERENCE: GP50022
CURRENT APPLICATION NUMBER: US/11/174,150
CURRENT FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US/10/257,174
PRIOR FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: PCT/US01/11797
PRIOR PILING DATE: 2001-04-11
PRIOR PILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: 60/196,603
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 60/199,417
PRIOR APPLICATION NUMBER: 60/199,417
PRIOR APPLICATION NUMBER: 60/199,417
PRIOR FILING DATE: 2000-04-24
NUMBER OF SEQ ID NOS: 48
SOPTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 34
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                                         S
                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-174-150-35
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APPLICANT: Murdoch, Paul R.
APPLICANT: Murdoch, Paul R.
APPLICANT: Smith, Randall F.
APPLICANT: Smith, Randall F.
APPLICANT: Xiang, Zhaoying
TITLE OF INVENTION: NOVEL COMPOUNDS
TITLE REFERENCE: GP50022
CURRENT APPLICATION NUMBER: US/11/174,150
CURRENT FILING DATE: 2005-07-01
PRIOR FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: OT/US01/11797
PRIOR APPLICATION NUMBER: 60/196,603
PRIOR FILING DATE: 2000-04-13
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 60/199,417
PRIOR APPLICATION NUMBER: 60/199,417
PRIOR APPLICATION NUMBER: 60/199,417
PRIOR APPLICATION NUMBER: 60/199,417
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 60/199,417
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NUMBER OF SEQ ID NOS: 48
SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                   Matches
                                                                                                                             Query Match
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ORGANISM: Homo
                                                                                                                                                                                                                                  LENGTH: 1114
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                                                                        43.3%;
Local Similarity 53.8%;
es 7; Conservation
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nes 7; Conserva
961
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                                         3 DWLLWG---DRGA 12
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EWSVWGSWYDRGA 973
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53.8%;
                                                                                                     Score 38.5; DB 7; Pred. No. 53;
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Pred. No. 51
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RESULT 6
US-11-054-515-1679
; Sequence 1679, Application US/11054515
; Publication No. US20050255532A1

GENERAL INFORMATION

APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3

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APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523P3
CURRENT APPLICATION NUMBER: US/11/054,515
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: 60/543,296
PRIOR FILING DATE: 2004-02-11
PRIOR PFILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 60/593,418
PRIOR APPLICATION NUMBER: 60/331,469
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LENGTH: 248
TYPE: PRT
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Best Local Similarity
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PRIOR FILING DATE: 2004-02-11
PRIOR APPLICATION NUMBER: 60/580,347
PRIOR FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: 10/293,418
PRIOR FILING DATE: 2002-11-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Remaining Prior Application data removed - See File Wrapper or PALM NUMBER OF SEQ ID NOS: 3247
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PRIOR
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CURRENT FILING DATE: 2005-02-10
                                                                        PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
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APPLICATION NUMBER: 60/277,379
FILING DATE: 2001-03-21
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FILING DATE: 2001-11-16
                                                                                                                                                                                                                           APPLICATION NUMBER: 60/340,817 FILING DATE: 2001-12-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 2001-03-16
APPLICATION NUMBER: 60/240,816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/276,248
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 2001-12-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/340,817
FILING DATE: 2001-03-16
APPLICATION NUMBER: 60/240,816
                                                APPLICATION NUMBER: 60/276,248
                                                                                                                                                                                                     APPLICATION NUMBER: 09/880,748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         44 EPEWMGWINGGSGD 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 EPDWLLWGDRGALD 14
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 248;
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; ORGANISM: mus musculus US-10-967-527A-24
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US-10-967-527A-24
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; ORGANISM: Homo sapiens
US-11-054-515-944
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; TYPE: PRT ; ORGANISM: Homo sapiens US-10-821-234-1116
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NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 944
LENGTH: 251
                                                                    NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt_SEQ_genes Version 1.0
SEQ ID NO 1116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: FastSEQ for Windows Version SEQ ID NO 24
                                                                                                                                                                                                                                                                                                         Sequence 1116, Application US/10821234
Publication No. US20050255114A1
GENERAL INFORMATION:
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Publication No.
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APPLICANT: Holloway, James L.
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: Ztnff14, A Tumor Necrosis Factor
TITLE OF INVENTION: Receptor
FILE REFERENCE: 03-17
                                                                                                                 FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
PRIOR FILING DATE: 2003-04-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/10/967,527A
CURRENT FILING DATE: 2004-10-18
PRIOR APPLICATION NUMBER: 60/511,698
PRIOR FILING DATE: 2003-10-16
                                                                                                                                                                                                                APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
                                                                                                                                                                                                                                     APPLICANT: Andarı
APPLICANT: Tang,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 5
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                                                                                                                                                                                                                                                                                          APPLICANT: Labat, Ivan
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TYPE: PRT
                                                      LENGTH: 225
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Andarmani, Susan
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VO. US20050256041A1
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83.3%;
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Pred. No. 29;
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Pred. No. 15;
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Query Match

40.4%;

Score 36;

DB 6;

Length 225;

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CURRENT APPLICATION NUMBER: US/10/467,657; CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 1006
LENGTH: 322
TYPE: PRT
ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1006
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US-10-467-657-1006
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                                                                                                                                   US-10-793-626-484
                                                            Query Match
Best Local Similarity
Matches 5; Conserv
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PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PALEBILIN Ver. 2.1
SEQ ID NO 484
                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 484, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:
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Best Local Similarity 63.6%;
Matches 7; Conservative
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Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                 APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PUJ486US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
                                                                                                                                        LENGTH: 428
TYPE: PRI
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: amino acid sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
   333
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WGDKGVYD 340
                                WGDRGALD 14
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                                                                 Conservative
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62.5%;
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Pred. No. 50;
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Pred. No.
                                                                   Mismatches
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Sequence 128, Application US/10510386
Publication No. US20050244922A1
GENERAL INFORMATION:
APPLICANT: Andersen, Jens Tonne
APPLICANT: Clausen, Ib Groth
APPLICANT: Jorgensen, Steen Troels
APPLICANT: Olsen, Peter Bjarke
APPLICANT: Rasmussen, Michael Dolberg
TITLE OF INVENTION: Improved Bacillus Host Cell
FILE REFERENCE: 10294-204-US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; LENGTH: 1857
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-057-058-60
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Publication No. US20050244400A1

GENERAL INFORMATION:
APPLICANT: LEGOWItz, Jonathan
APPLICANT: Maga, John
TITLE OF INVENTION: ACID ALPHA-GLUCOSIDASE AND FRAGMENTS THEREOF
FILE REFERENCE: SYM-011
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CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: US 60/543,812
PRIOR FILING DATE: 2004-02-10
NUMBER OF SEQ ID NOS: 68
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn version 3.3 SEQ ID NO 61
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Matches 5; Conserv
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Best Local &
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TITLE OF INVENTION: ACID ALPHA-GLUCOSIDASE AND FRAGMENTS THEREOF
FILE REFERENCE: SWM-011
CURRENT APPLICATION NUMBER: US/11/057,058
CURRENT FILING DATE: 2005-02-10
PRIOR APPLICATION NUMBER: US 60/543,812
PRIOR FILING DATE: 2004-02-10
NUMBER OF SEQ ID NOS: 68
NUMBER OF SEQ ID NOS: 68
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CURRENT APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 1857
TYPE: PRT
ORGANISM: Homo sapiens
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es 5; Conserv
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US/10/510,386
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Pred. No. 2.1e+02;
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Sequence 1466, Application US/10793626

Publication No. US20050255478A1

REPLICANT KIMMERLY, WILLIAM JOHN

TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

FILE REFERENCE: PU3480US

CURRENT FILING DATE: 2004-03-04

PRIOR APPLICATION NUMBER: US/10/793,626

CURRENT FILING DATE: 2004-03-04

PRIOR FILING DATE: 1999-11-09

NUMBER OF SEQ ID NOS: 4472

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 1466

LENGTH: 247

TYPE: PRI
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
OTHER INFORMATION: amino acid sequence
US-10-793-626-1466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT FILING DATE: 2004-10-04; NUMBER OF SEQ ID NOS: 248; SOFTWARE: PatentIn version 3.3; SEQ ID NO 128; LENGTH: 158; TYPE: PRT; ORGANISM: Bacillus licheniformis US-10-510-386-128
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US-10-793-626-1466
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Search completed: December 4, Job time: 5.375 secs
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                                                                                                                                                   Query Match 39.9%; Score 35.5; I Best Local Similarity 63.6%; Pred. No. 35; Matches 7; Conservative 2; Mismatches
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Best Local Similarity 72.7%;
Matches 8; Conservative
                                                                        4 WL-LWGDRGAL 13
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186 WMNLWGNVGAL 196
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                                                                                                                                                                                              DB 6; Length 247;
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Minimum DB |
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1: geneseqp1980
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Copyright (c) 1993 - 2005 Compugen Ltd.
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geneseqp2000s:*
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            AAR8516
AAR9733
AAU07452
AAE28561
AAU705017
AAU705017
AAU70479
ABO10719
ABR44663
ABR35904
ADH17960
ADH17960
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50.576 Million cell updates/sec
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Aau70485 Mouse hea Aau70477 Mouse hea Abo10719 Deimmunis Abr44663 Murine J4 Abo33904 Anti-GPI-Adg75671 Peptide o Adh17960 Human mod Adh18011 Human mod Adq90791 Artificia Adr12645 Mammalian Adr38796 Mouse hea Adr38879 Mouse hea Adr38879 Mouse hea Adr38797 Mouse ant Adu38427 Mouse ant Adw07419 Heavy cha
                                                                                                                                                                                                                                      Aar85166 Human ONS
Aar97333 Humanised
Aau07452 Synthetic
Aae28561 scFv anti
                                                                                                                                                                                                                                                                                                    Description
                                                                                                                                                                                                                 Aau70501
                                                                                                                                                                                                                              Aau70517 Mouse
                                                                                                                                                                                                                  Mouse
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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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AEA44171	AEA45691	AEA21445	AEA21481	ADZ83543	ADZ83545	ADZ83542	ADZ83544	ADZ35850	ADY31581	ADW07431	ADW07447	ADW07415	ADW07451	ADW07443	ADW07411	ADW07439	ADW07435	ADW07427	ADW07423	ADW07407
Aea44171 Anti-TPO	Aea45691 Apolipopr	Human	Aea21481 Human	CD3	Adz83545 CD3 co		CB3			Heavy	Heavy	Adw07415 Heavy		Adw07443 Heavy	Adw07411 Heavy	Adw07439 Heavy	Adw07435 Heavy	Adw07427 Heavy	Heavy	Adw07407 Heavy
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## ALIGNMENTS

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RESULT 1
AAR85166
 AAR85163-R85166 are human antibody ONS-M21 heavy variable region framework regions (FRs). They were used in the construction of a human/murine chimeric antibody, reactive with human medullo- blastoma (a brain tumour) cells. The chimeric antibody can be used in the diagnosis and treatment of this disease
                                                                                                                                                                                                                                                                                                                                                                                                 Human; ONS-M21 antibody; heavy variable region; chimeric protein; framework region; FR 4; medulloblastoma; brain tumour; treatment;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Human ONS-M21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-JAN-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR85166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAR85166 standard; protein; 11
Sequence 11
                                                                                                                              Reconstituted antibody against human medullo:blastoma cells - contains high proportion of human antibody origin and has low antigenicity.
                                                                                                                                                                      WPI; 1995-200347/26.
                                                                                                                                                                                                Ohtomo T,
                                                                                                                                                                                                                                                                               19-OCT-1994;
                                                                                                                                                                                                                                                                                                                                     WO9514041-A1.
                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                      diagnosis.
                                                                                                     Claim 18; Page 102; 120pp; Japanese.
                                                                                                                                                                                                                                                     19-NOV-1993;
                                                                                                                                                                                                                                                                                                         26-MAY-1995.
                                                                                                                                                                                                                           (CHUS ) CHUGAI SEIYAKU KK
                                                                                                                                                                                                Sato K,
 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                        antibody heavy variable region
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Query Match
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Matches 11; Conserv

Conservative

100.0%; S 100.0%; S tive 0;

Score 59; DB Pred. No. 0.0 0; Mismatches

0.011; 8 2

Length 11; Indels

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RESULT 3
AAU07452
ID AAU0
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AC AAU0
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AC AAU0
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AAR97333
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                  New humanised monoclonal antibodies (MAbs) comprising the complementary determining regions (CDRs) of a parental murine class III anticarcinoembryonic (CDRs) who engrafted to the framework regions (FRs) of a heterologous antibody which can be derived from any species including human, retain the anti-CEA binding specificity of the parental murine MAb but are less immunogenic in a human subject than the parental MAb. The humanised antibodies can be used in diagnosis, imaging and therapy of CEA producing cancers and patients receiving the humanised antibodies and conjugates show improved therapeutic results, decreased immune responses and decreased immune-mediated adverse effects compared to the parent antibody. This sequence corresponds to the fourth framework region of the heavy chain of the humanised MAb. See AAR97313-97333
 Synthetic peptide H-FR4-F8
                                24-OCT-2001
                                                              AAU07452;
                                                                                         AAU07452 standard; peptide; 11 AA
                                                                                                                                                                                                                                                                                          Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New humanised anti-CEA monoclonal antibody - having engrafted murine CDRs, used for diagnosis, imaging and therapy of CEA-producing cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1996-209653/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-APR-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO9611013-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Monoclonal antibody; humanised; mouse; framework region; FR; CDR; complementary determining region; anti-carcinoembryonic antigen; CEA, diagnosis; imaging; therapy; immune response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Humanised monoclonal antibody heavy chain framework region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-OCT-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR97333 standard; peptide; 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (IMMU-) IMMUNOMEDICS INC
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                                                                                                                                                                    WGQGTTVTVSS 11
                                                                                                                                                                                                 WGQGTTVTVSS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Page 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WGOGTTVTVSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Armour KL;
                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                         8
                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94US-00318157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95WO-US011964.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    62pp; English.
                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                                                                0
                                                                                                                                                                                                                              Score 59; DB 2; Length 11;
Pred. No. 0.011;
; Mismatches 0; Indels
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                                                                                                                                                                                                                             Gaps
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The invention relates to peptides which are able to confer stability and CC solubility to an antibody comprising these peptides. The peptides are especially H-FR1, H-FR2, HFR3, HFR4, L-FR1, L-FR3 or L-FR3 or L-FR4 CC especially H-FR1, H-FR2, H-FR3, HFR4, L-FR1, L-FR3 or L-FR3 or L-FR4 CC present within a variable region of an antibody which makes the antibody soluble and stable in cycoplasm. Peptides having the sequences of HFR1 to CC H-FR4 are present within the variable region of the heavy chain of an antibody, covalently linked to the H-CDR1, H-CDR2, H-CDR3 in the order (H-FR1)-(H-CDR2)-(H-CDR2)-(H-CDR3)-(H-CDR3)-(H-CDR3)-(H-CDR3) and peptides covalently linked to the L-FR4 are present within the variable region of the light chain of an antibody, covalently linked to the L-FR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-CDR3)-(L-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     H-FR4-F8; antimicrobial; antiviral; cytostatic; immunomodulatory; antibody; gene therapy; HIV; human immunodeficiency virus; tumour; metabolic disorder; immune disorder; auto-immune disorder.
Sequence 11 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; Page 57; 109pp; English.
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DB; AAS11874.
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SOC CONSORTILE METAPONTUM AGROBIOS SRL.
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                            Query Match
Best Local S
Matches 11
                             l Similarity
11; Conserv
μ
       WGQGTTVTVSS 11
WGQGTTVTVSS 11
                              Conservative
                                    100.0%;
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                                   Score 59; DB 4;
Pred. No. 0.011;
                             Mismatches
                                           4
                              0
                                          Length 11;
                              Indels
                              0
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0

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RESULT 4
AAE28561
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AAE28561 standard; peptide; 11

(first entry)

scFv antibody heavy chain frame work region 4 from S18 clone

***** Human; sugar-nucleic acid interaction; single chain human antibody; scFv; L-peptide binder; D-nucleic acid binder; sugar-protein interaction; FR4;

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RESULT 5
AAU70517
ID AAU7
XX
AC AAU7
XC AAU7
XX
DT 14-F
XX
DE MOUE
XX
KW Immu
KW Comg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a novel method of selecting L-peptide or CC D-nucleic acid binders that bind to enantiomers of naturally occurring Sugar or carbohydrate. The method involves providing enantiomers of CC naturally occurring sugar or carbohydrate employable for screening the CC ridentifying a L-peptide binder or D-nucleic acid binder having binding CC L-peptide binder or D-nucleic acid binder that binds to enantiomers of CC naturally occurring sugar or carbohydrate. It is useful for selecting L-peptide binders and/or L-nucleic acid binder that binds to enantiomer of CC peptide binders and/or L-nucleic acid binders that are resistant to peptide binders and/or L-nucleic acid binders that are resistant to conzymatic degradation due to their non-naturally occurring chirality, for CC blocking or activating the biological function of the naturally occurring sugar or carbohydrate to which they are targeted. The naturally occurring CC sugar or carbohydrates include bacterial or viral cell surface sugars carbohydrates, heparin sulphates involved in viral entry, thrombosis CC and angiogenesis. The emthod is useful for identifying D-peptides, for carbohydrates, heparin sulphates involved in viral entry, thrombosis CC studying sugar-protein and sugar-nucleic acid interaction and for CC designing high-affinity and hydrolase resistant molecules as artificial centures capable of binding natural carbohydrates. The immobilised enantiomers are useful for screening phage expressing a peptide library CC immobilised enantiomer. The present sequence is single chain human cc immobilised enantiomer. The present sequence is single chain human antibody (scFv) heavy chain frame work region 4 (FR4) from S18 clone.
                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 11
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  Immunoglobulin; antibody; light chain; heavy chain; CDR; FR;
complementarity determining region; framework region; IgBP;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 11
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                                                            Mouse heavy
                                                                                                   14-FEB-2002
                                                                                                                                                                                AAU70517 standard; peptide; 11 AA
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                                                            chain immunoglobulin framework region 4 #11.
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The invention relates to transforming a population of cells (e.g. plant cells), comprising using a library of two different polynucleotides concoding different immunoglobulin binding protein (IgBP) polypeptides that specifically bind to a ligand or form one or more disulphide bonds continued that the polypeptides in transferted cells, to generate an IgBP that binds to a ligand, and transformed plant cells are selected, and preparing an IgBP carray in plant cells. At least one peptide sequence has at least 75% considered in the poptide sequence has at least 75% considered for preparing an immunoglobulin molecule. The method is considered for preparing an immunoglobulin binding protein array, preferably heavy chain binding protein (CHBP) array in eukaryotic cells especially considered for mammalian cells. The CHBP is useful for cells (e.g. Agrobacterium tumefaciens or maize) or other eukaryotic cells (e.g. insect cells or mammalian cells). The CHBP is useful for considered considered considered peptide that may be incorporated into an IgBP of the invention of the invention of the considered considered peptide that may be incorporated into an IgBP of the invention of the invention of the invention of the considered considered considered considered considered into an IgBP of the invention of the in
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Best Local Similarity
                                Immunoglobulin; antibody; light chain; heavy chain; CDR; FR; complementarity determining region; framework region; IgBP; transgenic plant; immunoglobulin binding protein array; IgM;
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IgD; IgE; IgY; IgM; kappa; lambda; CHBP.
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Pred. No. 0.011;
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RESULT 8
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Pred. No. 0.011;
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0

Preparing immunoglobulin binding protein array in plant cells by transforming the cells with different polynucleotides encoding binding

WPI; 2002-055482/07.

02-MAY-2000; 2000US-00563222

EPICYTE

PHARM

Disclosure; Fig 1B; 129pp;

English

preparing

array.

protein polypeptides specific to ligand, selecting plant cells for

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RESULT 9
ABOLIT 19
ABOLIT 20-A
XX ABOLI
XX Deim
XX Deim
XX Modi
KW Prose
KW
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Best Local S
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   prostate specific membrane antigen; immunogenic; CDR; murine; complementarity determining region; J591; J415; J533; B99; mouse; prostatic disorder; cancerous disorder; genitourinary inflammation; prostatitis; benign enlargement; prostatic cancer; testicular cancer; solid tumour; soft tissue tumour; metastatic lesion; pain; analgesic; antiinflammatory; cytostatic; framework region; variable heavy chain; variable light chain; VH; VL; variable region; mutant; mutein.
                                                                                                                                                                                                                                                                                            01-JUN-2001; 2001US-0295214P.
20-SEP-2001; 2001US-0323585P.
08-MAR-2002; 2002US-0362810P.
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                                                                                                                                                                                                                                                                                                                                                                                                                        30-MAY-2002; 2002WO-US017068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200298897-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Modified antibody; deimmunised antibody; anti-PMSA antibody;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Deimmunised murine J415-4 antibody framework sequence VHFR4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABO10719 standard; peptide; 11 AA.
                                 New modified anti-prostate specific membrane antigen (PSMA)
                                                                                                    WPI; 2003-156839/15
immunoglobulins, useful
                                                                                                                                                                                                                                (CORR ) CORNELL RES FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11:
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                                                                                                                                                                Carr
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                                                                                                                                                             Hamilton
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   for treating or preventing a prostatic or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
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Pred. No. 0.011;
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RESULT 10
ABR44663
ID ABR44663
AC ABR44
XX ADVA
DT 25-JU
DX MURIN
XX MOUSE
KW POOSE
KW POOSE
KW POOSE
KW Neopl
XX MUS N
OS SYNTH
XX WO200
XX WO200
XX WO200
XX WO200
XX WO217-MA
XX BPR 20-SE
PR 20-SE
PR 20-SE
PR WPI;
XX WPI;
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to modified (e.g. deimmunised) antibodies to prostate specific membrane antigen (PSWA). The modified anti-PSWA antibodies are less immunogenic compared to the unmodified anti-PSWA antibodies. The modified antibodies comprise complementarity determining regions (CDRs) from a non-human antibody (e.g. murine antibody J591,J415, J533 or E99), and framework sequences that are less immunogenic in humans (e.g. less antigenic than the murine frameworks in which a murine CDR naturally occurs). The modified antibodies bind with PMSA, preferably human PMSA, with high affinity and specificity. The anti-PMSA antibodies are useful for treating or preventing a prostatic or cancerous disorder, e.g. genitourinary inflammation, prostatics, benign enlargement, prostatic cancer or testicular cancer, or solid tumours, soft tissue tumours or metastatic lesions, and its associated pain. The present sequence represents a deimmunised murine framework region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 21; 254pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancerous disorder, e.g. genitourinary inflammation, prostatitis, prostatic or testicular cancer.
                                                                                      Ablating/killing aberrant prostate specific membrane antigen-expressing cells for treating skin disorders, by contacting the cell with an antibody that binds to the extracellular domain of prostate specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 11 AA;
                                                                                                                                                                                                Bander N;
                                                                                                                                                                                                                                                                  20-SEP-2001; 2001US-0324100P.
08-MAR-2002; 2002US-0362612P.
                                                                                                                                                                                                                                                                                                                      30-MAY-2002; 2002WO-US017204.
                                                                                                                                                                                                                                                                                                                                                          27-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    epidermal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     prostate specific membrane antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mouse; murine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Murine J415-4 antibody VH FR4 amino acid sequence SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABR44663;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABR44663 standard; peptide; 11
                                                                       membrane antigen
                                                                                                                                                             WPI; 2003-313319/30
                                                                                                                                                                                                                                                                                                                                                                                           WO2003024388-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-JUL-2003
                                                                                                                                                                                                                                 (CORR ) CORNELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                neoplastic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disorder; psoriasis; inflammatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disorder
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antibody; skin disorder; binding agent; PSMA; cytostatic;
                                                                                                                                                                                                                                   RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ic membrane antigen; antipsoriatic; antiarcultut, antiinflammatory; antiallergic; vaccine; dermal disorder; antiinflammatory disorder; epidermis; dermis;
                                                                                                                                                                                                                                   FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
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Pred. No.
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. 0.011;
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The present invention describes a method

(H)

for ablating or killing

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Disclosure;

Page 68;

225pp; English

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RESULT 11
ABO33904
ID ABO33904
ID ABO33904
AC ABO33
XX ADO33
XX ADO33
XX ADO31
XX AD
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Matches 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antibodies have antipsoriatic, antiarthritic, dermatological, cytostatic antiinflammatory and antiallergic activities, and can be used in vaccines. MI is useful for treating a skin disorder in a subject, by administering to the subject, an amount of an antibody which binds specifically to the extracellular domain of FSMA (the subject is a mammal, preferably human and is having, or at risk of, a skin disorder). The skin disorder is a dermal or an epidermal disorder, and is selected from pooriasis (preferably chronic stationary psoriasis, psoriasis
Immunopolypeptide for diagnosis disease, e.g., human rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; anti-glucose-6-phosphate isomerase-antibody; immunopolypeptide; anti-GPI-antibody; GPI; glucose-6-phosphate isomerase; autoimmune disease; rheumatoid arthritis; heavy chain variable region;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Anti-GPI-antibody heavy chain framework region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              an epidermal and a dermal cell). M1 comprises contacting the cell, or a vascular endothelial cell proximate to the cell, with an antibody (or its antigen-binding fragment), which binds specifically to the extracellular antigen-binding fragment, which binds specifically to the extracellular domain of PSMA in an amount sufficient to ablate or kill the cell. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   aberrant prostate specific membrane antigen (PSMA)-expressing cell (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                      06-APR-2001; 2001US-00828708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-APR-2001; 2001US-00828708
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                                                                                                                     WPI; 2003-521517/49.
                                                                                                                                                                                                                                                                           (DITZ/)
(BURT/)
(SCHA/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               framework region.
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                                                                                                                                                                                                                                                                           ) DITZEL H.
) BURTON D
) SCHALLER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WGQGTTVTVSS 11
                                                                                                                                                                                              Burton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                3 70
                                                                                                                                                                                              DR,
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Pred. No.
and treatment of human autoimmune arthritis, comprises a polypeptid
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0.011;
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Best Local
                                                                                                                                                                                     allergy,
disorder
      ameliorate disorders including bronchial hyperresponsiveness, asthma, atopic allergy, mucin overproduction, chronic obstructive pulmonary disorder, cystic fibrosis, chronic obstructive pulmonary disorder,
                                              This invention relates to novel humanised and chimeric antibody molecules, and functional fragments thereof, which have specificity f human interleukin-9 (IL-9). Specifically, it refers to recombinant antibodies derived from several mouse anti-IL-9 monoclonal antibodies namely MH9A3, MH9D1 and MH9L1. The present invention describes using humanised and chimeric antibody molecules to treat, prevent and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                that binds to human glucose-6-phosphate isomerase (GPI). The methods e compositions are used for diagnosis and treatment of human autoimmune disease, e.g., human rheumatoid arthritis. This is the amino acid sequence of human anti-GPI-antibody heavy chain variable region framew
atopic allergy, mucin over disorder, cystic fibrosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mucin overproduction; chronic obstructive pulmonary disorder; cystic fibrosis; chronic obstructive pulmonary disorder; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADG75671 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      binds to
                                                                                                                                                       Disclosure; SEQ ID NO 135; 206pp; English
                                                                                                                                                                              for preparing a composition for preventing or treating e.g., atopic allergy, asthma, mucin overproduction, chronic obstructive pulmonary disorder or cystic fibrosis.
                                                                                                                                                                                                                              New antibody or antibody fragment that specifically binds to IL-9, useful
                                                                                                                                                                                                                                                             WPI; 2003-845267/78
                                                                                                                                                                                                                                                                                                      Reed JL,
                                                                                                                                                                                                                                                                                                                                                                                                                           11-APR-2003; 2003WO-US011113
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antiasthmatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptide of
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                                                                                                                                                                                                                                                                                                                                                                                              12-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         interleukin-9; IL-9; anti-IL-9; antibody; MH9A3; MH9D1; MH9L1,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fig 4B; 47pp; English
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                                                                                                                                                                                                                                                                                         Dall'acqua W,
e C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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2002US-0371728P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             describes an immunopolypeptide comprising a polypeptide human glucose-6-phosphate isomerase (GPI). The methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                       Snick J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            asthma;
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Best Local S
Matches 11
          The invention relates to a novel binding composition that specifically binds to insulin-like growth factor receptor 1 (IGFR1). The composition of the invention demonstrates cytostatic, osteopathic, antiatheroseslerotic, antipsoriatic, vasotropic and antidiarrhoeal activities and may be useful for preventing or treating a medical condition selected from acromegaly, bladder cancer, Wilm's cancer, ovarian cancer, pancreatic cancer, bladder cancer, colorectal cancer, cancer, prostate cancer, bone cancer, lung cancer, colorectal cancer, cervical cancer, synovial sarcoma, diarrhoea associated with carcinoid syndrome, vasoactive intestinal peptide secreting tumours, gigantism,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antiatherosclerotic; antipsoriatic; vasotropic; antidiarrhoeal; acromegaly; bladder cancer; Wilm's tumour; ovarian; pancreatic; benign prostatic hyperplasia; breast; prostate; bone; lung; colorectal; cervical; synovial sarcoma; diarrhoea; carcinoid syndrome; vasoactive intestinal peptide; gigantism; psoriasis; atherosclerosis; smooth muscle restenosis; blood vessel; microvascular proliferation; gene therapy; human; 15H12/19D12; heavy chain A; HCA; framework region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 excessive T cell or neutrophil activity. Accordingly, these IL-9 antagonists exhibit antiallergic, antiasthmatic and cytostatic activities. This peptide sequence is a peptide from the human heavy framework region 4, used in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                       24-MAY-2002; 2002US-0383459P.
02-JUL-2002; 2002US-0393214P.
23-DEC-2002; 2002US-0436254P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human modified 15H12/19D12 HCA framework region 4 peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-MAR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                           Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-MAY-2003; 2003WO-US016283
psoriasis, atherosclerosis, smooth muscle restenosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  insulin-like growth
                                                                                                                                                                                                                         is mediated by elevated expression or activity
                                                                                                                                                                                                                                                                                          2004-042807/04.
DB; ADH17959.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sapiens.
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                                                                                                                                                                                                                                            receptor
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D, Srinivas:
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                                                                                                                                                                                         SEQ ID NO 69; 144pp; English
                                                                                                                                                                                                                                         composition that specifically binds to insulin-like growth ptor 1, useful for treating or preventing a medical condition
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                                                                                                                                                                                                                                                                                                                                         Feingersh D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 59;
Pred. No.
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Matches
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Williame
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binds to insulin-like growth factor receptor 1 (IGFR1). The composition of the invention demonstrates cytostatic, osteropathic, antiatherosclerotic, antipporiatic, vasorropic and antidiarrhoeal activities and may be useful for preventing or treating a medical condition selected from acromegaly, bladder cancer, wilm's cancer, ovarian cancer, cancer, benign prostatic hyperplasia, breast cancer, prostate cancer, benign prostatic hyperplasia, breast cancer, prostate cancer, bene cancer, lung cancer, colorectal cancer, cervical cancer, synovial sarcoma, diarrhoea associated with carcinoid syndrome, vasoactive intestinal peptide secreting tumours, gigantism, psoriasis, atherosclerosis, smooth muscle restenosis of blood vessels and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vasoactive intestinal peptide; gigantism; psoriasis; atherosclerosis;
smooth muscle restenosis; blood vessel; microvascular proliferation;
gene therapy; human; 15H12/19D12; heavy chain B; LCB; framework region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     insulin-like growth factor receptor 1; IGFR1; cytostatic; oster
antiatherosclerotic; antipsoriatic; vasotropic; antidiarrhoeal
acromegaly; bladder cancer; Wilm's tumour; ovarian; pancreatic
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                                                                                                                                                                                                                                                                                                                                                                                                                   New binding composition that specifically binds to insulin-like growth factor receptor 1, useful for treating or preventing a medical conditional is mediated by elevated expression or activity of IGFR1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-MAY-2002; 2002US-0383459P
02-JUL-2002; 2002US-0393214P
23-DEC-2002; 2002US-0436254P
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n M, Feingersh
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Pred. No. 0.0
0; Mismatches
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RESULT 15
ADQ90791
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Best Local S
Matches 11
                                                                                             Query Match
Best Local Similarity
Matches 11; Conserv
                                                                                                                                                                                                                                    The invention relates to a method of treating or preventing an insulin-
related disorder in a subject which comprises administering an antibody
or its antigen-binding portion specific for prostate specific membrane
antigen (PSMA). The method is useful for treating an insulin-related
disorder, including obesity, hyperglycaemia, hypoglycaemia,
hyperinsulinaemia, insulin-resistance, impaired glucose tolerance,
impaired fasting glucose, Type 1 diabetes mellitus, Type 2 diabetes
mellitus, and gestational diabetes. The present sequence represents an
artificially deimmunised framework sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inappropriate microvascular proliferation. The composition may also have gene therapy applications. The current sequence is that of the human 15H12/19D12 heavy chain B (HCB) framework region peptide of the
                                                                                                                                                                                           Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID NO 40; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Use of anti-prostate specific membrane antigen antibodies for treating or preventing insulin-related disorders, e.g. obesity, hyperglycemia, hypoglycemia, hyperinsulinemia, insulin-resistance, or Type 1 or 2 diabetes mellitus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-533338/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      insulin-related disorder; prostate specific membrane antigen; PSMA; obesity; hyperglycaemia; hypoglycaemia; hyperglycaemia; hypoglycaemia; hypersistance; impaired glucose; tolerance; impaired fasting glucose; type 1 diabetes mellitus; Type 2 diabetes mellitus; gestational diabetes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Artificially deimmunised framework sequence #14.
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WGQGTTVTVSS 11
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heavy	heavy	heavy	Ig heavy chain pre	heavy	mu ch	heavy	heavy	Ig heavy chain V r	neavy						

## ALIGNMENTS

Ig heavy chain V region - human
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 20-Jun-2000
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 20-Jun-2000
C;Accession: S26793
R;Mortari, F; Newton, J.A.; Wang, J.Y.; Schroeder Jr., H.W.
Bur. J. Immunol. 22, 241-245, 1992
Bur. J. Immunol. 22, 241-245, 1992
A;Title: The human cord blood antibody repertoire. Frequent usage of the V(H)7 gene fami
A;Reference number: S26786; MUID:92111632; PMID:1730251
A;Accession: S26793

A;Status: preliminary
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-74 «MOR»
A;Cross-references: UNIPARC:UPI0000115FCA; EMBL:X61019; NID:g32787; PIDN:CAA43353.1; PID
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin

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Ig heavy chain V region (clone 2E8) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 24-Feb-1994 #sequence_revision 24-Feb-1994 #text_change 16-Aug-1996
C;Accession: PH655
R;Hillson, J.L.; Karr, N.S.; Oppliger, I.R.; Mannik, M.; Sasso, E.H.
J. Exp. Med. 178, 331-336, 1993
A;Title: The structural basis of germline-encoded VH3 immunoglobulin binding to staphylc A;Reference number: PH1642; MUID:93301610; PMID:8315388
A;Reference number: PH1642; MUID:93301610; PMID:8315388
A;Residues: 1-110 <AHIL-
A;Cross-references: UNIPARC:UPI0000176BDC
A;Cross-references: UNIPARC:UPI0000176BDC
A;Experimental source: B cell
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
C;Keywords: heterotetramer; immunoglobulin
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PH1655
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1 WGQGTTVTVSS 11
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                                                                        100.0%; Score 59; DB 2; Length 110; ilarity 100.0%; Pred. No. 0.0032; Conservative 0; Mismatches 0; Indels
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C;Superfamily: in C;Keywords: hete: F;14-97/Domain:
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S55530
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S55535
                                                                             Ig heavy chain V region pel7 - mouse (fragment)
(;Species: Mus musculus (house mouse)
(;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
(;Accession: $55530
R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: UNIPARC:UPI0000116203; EMBL:X82592; NID:g854310; PIDN:CAA57928.1; C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin F;14-97/Domain: immunoglobulin homology <IMM>
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C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change
C;Accession: 855535
C;Accession: 855535
R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
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A;Accession: S55533
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C;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
C;Accession: S55533
                                        A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies usin utations in the variable region genes.
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R;Boettger, V.; Boettger, A.; Las
J. Mol. Biol. 247, 932-946, 1995
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A; Accession:
                     A; Reference number: S55528; MUID: 95239763; PMID: 7536850
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A; Residues: 1-113 < BOE>
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Pred. No. 0.0033;
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Pred. No. 0.0033;
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Ig heavy chain V region (pe16/pe14) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Date: 27-Oct.195 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
C;Accession: S55528; S55529
R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies using unations in the variable region genes.
                                                                     A;Cross-references: UNIPARC:UPI00001161FB; EMBL:X82583; C;Superfamily: immunoglobulin V region; immunoglobulin V region; immunoglobulin C;Keywords: heterotetramer; immunoglobulin F;14-97/Domain: immunoglobulin homology <IMM>
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A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies using utations in the variable region genes.
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I;Species: Mus musculus (house mouse)
C;Date: 27-OCt-1955 #sequence_revision 03-Nov-1995 #text_change
C;Accession: S55534
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A; Residues: 1-113 < BOE>
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A; Residues: 1-113 <BOE>
A; Cross-references: UNIPARC: UPI00001161FC; EMBL: X82584; NID: g854292;
C; Superfamily: immunoglobulin V region; immunoglobulin homology
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A; Residues: 1-113 < BOE>
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100.0%;
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100.0%; Pred. No. 0.0033;
tive 0; Mismatches 0
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Score 59;
Pred. No.
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A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies usin utations in the variable region genes.

A;Reference number: S55528; MUID:95239763; PMID:7536850

A;Accession: S55532

A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-113 <BOE>
A;Residues: 1-113 <BOE>
A;Cross-references: UNIPARC:UPI00001161FF; EMBL:X82588; NID:g854300; PIDN:CAA57924.1; PIC;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
C;Keywords: heterotetramer; immunoglobulin
F;14-97/Domain: immunoglobulin homology <IMM>
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S55532
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A;Accession: S5531
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-113 -808>
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R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, J. Mol. Biol. 247, 932-946, 1995
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R;Boettger, V.; Boettger, A.; Lane, E.B.;
J. Mol. Biol. 247, 932-946, 1995
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                              Ig heavy chain V region (VH-28) - human
C;Species: Homo sapiens (man)
C;Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change
C;Accession: S46392
                                                                                                          RESULT 10
S46392
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;Species: Mus musculus (house mouse)
;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change 21-Jan-2000
;Accession: S55532
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Figini, M.; Marks, J.D.; Winter, Mol. Biol. 239, 68-78, 1994
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28; MUID:95239763; PMID:7536850
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Pred. No. 0.0033;
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Pred. No. 0.0033;
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Ig heavy chain V region - mouse
c;Species: Mus musculus (house mouse)
c;Species: Nus musculus (house mouse)
c;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004
C;Accession: S20706
C;Accession: S20706
C;Accession: D.M.; Hinds, M.G.; Welsh, J.H.; Tempest, P.R.; Harris, W.J.; Carr, F.J.; Osk.
R;Brennand, D.M.; Hinds, M.G.; Welsh, J.H.; Tempest, P.R.; Harris, W.J.; Carr, F.J.; Osk.
submitted to the EMBL Data Library, April 1992
A;Description: Binding specificity and variable region sequences of two monoclonal anti:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Molecule type: DNA
A;Residues: 1-114 <br/>
A;Residues: 1-114 <br/>
A;Cross-references: UNIPARC:UPI0000176B37; EMBL:Z11916
A;Cross-references: UNIPARC:UPI0000176B37; EMBL:Z11916
C;Superfamily: immunoglobulin V region; immunoglobulin
C;Keywords: heterotetramer; immunoglobulin
C;Keywords: heterotetramer; immunoglobulin
C;Keywords: heterotetramer; immunoglobulin
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C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000
C;Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000
C;Accession: S20707
R;Brennand, D.M.; Hinds, M.G.; Welsh, J.H.; Tempest, P.R.; Harris, W.J.; Cas submitted to the EMBL Data Library, April 1992
submitted to the EMBL Data Library, and variable region sequences of two monutangles.
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S20707
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A; Residues: 1-114 < FIG>
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A;Accession: $20707
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                                                                                                                    A;Cross-references: UNIPROT:Q8R3V9; UNIPARC:UPI0000176C45; EMBL:Z11914 C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin
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A; Residues: 1-115 < BRE>
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1 WGQGTTVTVSS 11

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C;Superfamily: in C;Keywords: hete; F;14-97/Domain: i
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C;Accession: S55542
R;Boettger, V.; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
J. Mol. Biol. 247, 932-946 analysis of monoclonal
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C.Species: Mus musculus (house mouse)
C.Species: Mus musculus (house mouse)
C.Date: 18-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C.Accession: S15672
R.Jempest, P.R.; Bremner, P.; Lambert, M.; Taylor, G.; Furze, J.M.; Carr, F.J.; l
Bio/Technology 9, 266-271, 1991
A.Title: Reshaping a human monoclonal antibody to inhibit human respiratory sync;
A.Reference number: S15672; MUID:9137412; PMID:1367535
A;Title: Comprehensive epitope analysis of monoclonal anti-proenkephalin antibodies usin utations in the variable region genes.
A;Reference number: S55528; MUID:95239763; PMID:7536850
A;Accession: S55541
A;Status: preliminary
                                                                                                                            Ig heavy chain V region pel - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change
C:Accession: S5541
R:Boettger, V:; Boettger, A.; Lane, E.B.; Spruce, B.A.
J. Mol. Biol. 247, 932-946, 1995
                                                                                                                                                                                                                                                                                           RESULT 15
S55541
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S55542
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A;Reference number: S55528; MUID:95239763; PMID:7536850
A;Accession: S55542
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A; Residues: 1-116 < TEM>
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A; Residues: 1-116 < BOE>
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c;Species: Mus musculus (house mouse)
C;Date: 27-Oct-1995 #sequence_revision 03-Nov-1995 #text_change
C;Accession: S55542
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100.0%; Pred. No. 0.0033;
cive 0; Mismatches 0
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Pred. No. 0.0033;
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Search completed: Job time: 15.5832
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A; Residues: 1-117 <BOE>
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time : 15.5833 secs
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                                                                                           1 WGQGTTVTVSS 11
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              2005, 04:53:46
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Pred. No. 0.0034;
Mismatches 0
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Result
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Muridae; Murinae; Mus.

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InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig-v.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=85205332; PubMed=3922855; DOI=10.1016/0378-11 Kudo A., Ishihara T., Nishimura Y., Watanabe T.; "A cloned human immunoglobulin heavy chain gene with repeat sequence in 5' flanking region."; Gene 33:181-189(1985).
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Submitted (SEP-2002) to the EMBL/Gen
EMBL, AY151140; AAN75452.1; -; mRNA.
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4R; POSSS; 21-146.

2; GO:0005576; C:extracellular region; NF

O; GO:0003823; F:antigen binding; NAS.

O; GO:0006955; P:immune response; NAS.

InterPro; IPR007110; Ig-like.

InterPro; IPR003596; Ig-v.
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P01744;
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16-OCT-2001 (Rel. 40, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
                                                                                                                                                                               SMART; SM00406; IGv; I
PROSITE; PS50835; IG LIKE; 1.
Direct protein sequencing; Im
Immunoglobulin V region; Pyrr
                                                                                                                                                                                                                           GO; GO:0005576; C:extracellular region; NAS. GO; GO:0003823; F:antigen binding; NAS. GO; GO:0006955; P:immune response; NAS. InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig v.
                                                                                                                                                                                                                                                                                                                                                                                                                Immediate hypersensitivity: modern concepts and developments, pp.1-36, Marcel Dekker, New York (1978).
-I- MISCELLANEOUS: This epsilon chain was isolated from a myeloma
                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROTEIN SEQUENCE OF 20-147.
Bennich H.H., Johansson S.G.O.,
(In) Bach M.K. (eds.);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                           CHAIN
                                                                                                                                                                      SIGNAL
                                                                                                                                                                                                                                                                                            HSSP; P01751; INQB
                                                                                                                                                                                                                                                                                                                                                     This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bell L.O., Gould H.J.,
"Cloming and sequence determination of the gene for immunoglobulin epsilon chain expressed in a myeloma proc. Natl. Acad. Sci. U.S.A. 79:6661-6665(1982).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=83065234; PubMed=6815656;
Kenten J.H., Molgaard H.V., Houghton
                                                                                                                                              DOMAIN
                                                                                                                                                                                                                                                                                                                    removed.
                                                                                                                                                                                                                                                                                                                               use as long
                                                                                                                                                                                                                                                                                                                                                                                    protein.
-!- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ig heavy chain
                                                                                                                                                                                                                                                                                                                                          veen the Swiss Institute of Bioinformatics Institute.
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                                                                     T -> V (in Ref. 2).
IH -> HI (in Ref. 2).
VG -> GV (in Ref. 2).
Missing (in Ref. 2).
                                                                                                                               Ig heavy chain V-I region ND Ig-like.
Pyrrolidone carboxylic acid.
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Pred. No. 0.0066;
            Score 59; DB 1;
Pred. No. 0.0067
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                                                948F9F72A5366C20 CRC64;
 Mismatches
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LT 5 S3_MOUSE Q925S3_MOUSE Q925S3;

PRELIMINARY;

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01-DEC-2001
01-OCT-2003
                                                                                                                                                                                                                                                                                                                                                       01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Putative matrix cell adhesion molecule-3.
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cui D.X., Zeng G.Y., Wang F., Xu J.R., Rer Yan X.J., Hou Y., Su C.Z.;
"Mechanism of exogenous nucleic acids and the repair of intestinal epithelium after World J. Gastroenterol. 6:709-717(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata;
Mammalia; Eutheria; Euarchontoglires; Gl
Muroidea; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Int. J. Radiat. Biol. Relat.
EMBL; AF240166; AAK43731.1;
HSSP; P01751; 1A6W.
SMR; Q925S3; 3-139.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q96QS0 HUMAN PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR003596; SMART; SM00406; IGv;
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                                  EMBL; AY039025; AAK82649.1; -; mRNA.
HSSP; P01869; 1AE6.
                                                                                                 Submitted (JUN-2001) to the
                                                                                                                                                                                                                                 NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                      Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE; PS50835; IG_LIKE; 1
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                                                                                                                                                                      NUCLEOTIDE SEQUENCE
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      InterPro; IPR007110;
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Euarchontoglires; Primates; Catarrhini; Homi
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s related to repairing
by treatment with the
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Last annotation updat
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Pred. No.
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Q925S1 MOUSE Q925S1; 01-DEC-2001 ( 01-DEC-2001 ( 01-OCT-2003 (

(TrEMBLrel. 19, (TrEMBLrel. 19, (TrEMBLrel. 25,

Last sequence update)
Last annotation update)

PRELIMINARY;

PRT;

218

Mus musculus MRP5 (Fragment)

(Mouse)

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RESULT 8
Q92581 MOUSE
ID Q92581 AC
Q92581 TO 1-DEC-2
DT 01-DEC-2
DT 01-DEC-2
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SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE;
Immunoglobulin domain.
                                                                                                                                                                                                                 SMR; 092552; 3-124.
InterPro; IPR0077110; Ig-like.
InterPro; IPR007596; Ig_v.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
                                                                                                                                                                                                                                                                  Int. J. Radiat. Biol. Relat. Stud. Phys. Chem. Med. 19:71-80(2001)
EMBL; AF240167; AAK43732.1; -; mRNA.
HSSP; P01751; 1A6W.
                                                                                                                                                                                                                                                                                                             Cui D., Zeng G., Yan X., Li X., Su "Cloning of mouse genes related to of the irradiated mice by treatment
                                                                                                                                                                                                                                                                                                                                                                          Cui D.X., Zeng G.Y., Wang F., Xu J.R., Ren D.Q., Guo Y.H., Tian F.R., Yan X.J., Hou Y., Su C.Z.;
"Mechanism of exogenous nucleic acids and their precursors improving the repair of intestinal epithelium after gamma-irradiation in mice."
World J. Gastroenterol. 6:709-717(2000).
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Eutheria; Euarchontoglires; Glires;
Muridae; Murinae; Mus.
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lires; Rodentia; Sciurogna
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Best Local S
Matches 11
NUCLEOTIDE SEQUENCE.

MEDLINE=91341421; PubMed=1908510; DOI=10.1084, Stark S.E., Caton A.J.;

Stark S.E., Caton A.J.;

"Antibodies that are specific for a single am: protein epitope use structurally distinct var: J. Exp. Med. 174:613-624(1991).

EMBL; U88067; AAB48044.L; -; mRNA.

PIR; S19965; S19965.

PIR; S19967; S19968.
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MEDLINE-98170165; PubMed-9509426;

Chung J.H., Choi S.J., Kim H.J., Kim I.J., Choi I.H., Lee S.D.,

Yi K.S., Suh P.G., Ryu S.H., Chung H.K.;

"Cloning and characterization of cDNAs encoding VH and VL of a
monoclonal anti-CEA antibody (CEA 79) cross-reactive with NCA-95

generation of a single-chain FV molecule (scFv).";

Mol. Cells 7:816-819(1997).
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"Mechanism of exogenous nucleic acids and the repair of intestinal epithelium after World J. Gastroenterol. 6:709-717(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Euarchonto
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Muridae; Murinae; Mus.
NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
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NON_TER 218 218
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InterPro; IPR003596; Ig_v.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Int. J. Radiat. Biol. Relat.
EMBL; AF240168; AAK43733.1;
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1 (TrEMBLrel. 19, 1
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Conservative 0
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, Last annotation of the control of the contro
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                                                                                                                                                                                                                                                                                                                                 DOI=10.1084/jem.174.3.613;
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RESULT 11
Q9NPP6 HDN
ID Q9NPP
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O1 01-00
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OS Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SQ FT DR DR DR DR
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Best Local S
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Receptor.
NON TER
SEQUENCE
                                                                                 Q9NPP6;
01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence upda:
01-MAR-2004 (TrEMBLrel. 26, Last annotation up:
Immunoglobulin heavy chain variant (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-JUL_2004 (TrEMBLrel. 27, Created)
05-JUL_2004 (TrEMBLrel. 27, Last sequence update)
05-JUL_2004 (TrEMBLrel. 27, Last annotation update)
Hepatitis B virus receptor binding protein (Fragmen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NON TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PIR; S26325; S26325.

HSSP; P01607; 1BWW.
Ensembl; ENSMUSG00000021155; Mus
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 2.
                      Bukaryota; Metazoa;
Mammalia; Butheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GO; GO:0004872; F:receptor activity; InterPro; IPR007110; Ig-1ke. InterPro; IPR003997; Ig_C1. InterPro; IPR003906; Ig_MHC. Pfam; PF07654; C1-set; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
                                                               Homo sapiens (Human).
                                                                                                                                                                                             Q9NPP6_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam; PF07654; C1-set; 3
SMART; SM00407; IGC1; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zhu N.S., Chen Y.Y.;
Submitted (MAR-2004) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q6PYX1_HUMAN
Q6PYX1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PROSITE; PS50835;
PROSITE; PS00290;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; AY570731; AAS88328.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS50835; IG_LIKE; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1T89; X-ray; A/B=-.
Q6PYX1; 3-348.
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                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                             WGQGTTVTVSS
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348 AA;
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241 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
ilarity 100.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
ilarity 100.0%;
Conservative
                                                                                                                                                                                               PRELIMINARY;
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IG_MHC; UNKNOWN_2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                    Euarchontoglires;
                                          Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    38162 MW;
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-; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                          Score 59; DB 2; Pred. No. 0.017; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 59; DB 2;
Pred. No. 0.012;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DD96C3D7E0BE5845
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    musculus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  348
                      Primates;
                                                                                                       on update)
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                      Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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Best Local S
Matches 11
  Query Ma
Best Loc
Matches
                                                                                                                   InterPro; IPRO03599; Ig.
InterPro; IPRO07110; Ig-1ike.
InterPro; IPRO03597; Ig-c1.
InterPro; IPRO03596; Ig_MHC.
InterPro; IPRO03596; Ig_v.
Pfam; PP07654; C1-Bet; 3.
SMART; SM00409; IG; 2.
SMART; SM00407; IGC1; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR007110; Ig-like.
InterPro; IPR003597; Ig cl.
InterPro; IPR003596; Ig MC.
InterPro; IPR003596; Ig V.
Pfam; PF07654; Cl-set; 2.
SMART; SM00406; IGv; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 47pothetical protein DKFZp68, Name=DKFZp686P15220;
                                                                                                                                                                                                                                                                                                                                                             Fobo G., Han M., Wiemann S.;
Submitted (JAN-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; BX640627; CAE45781.1; -; mRNA.
HSSP; P01861; IADQ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PROSITE; PS50835; IG_LIKE; 3.
PROSITE; PS00290; IG_MHC; UNKNOWN_2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (JUL-2000) to the EME EMBL; AL389978; CAB97534.1; -;
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Lehrach H.,
                                                                                    Hypothetical SEQUENCE 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wambutt R., Heubner D., Mewes H.W., Weil B.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Rectum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q6N089;
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                      Local
                                            Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          German cDNA Consortium;
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    l Similarity
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Ansorge W.,

Poustka A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              416 AA; 44786 MW; 8C41708BB8AB4687 CRC64;
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                                                                                    172 AA;
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    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tumor;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chordata; Craniata; Vertebrata; Euteleostomi; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                    51724 MW; 26CB340D0046D279 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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100.0%; {
100.0%; {
tive 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ballabio A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Escarceller M., Sumoy L.;
ne EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Last sequence update)
Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Created)
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Pred. No. 0.021;
  Score 59; DB 2;
Pred. No. 0.024;
; Mismatches
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                                          Length 472;
    Indels
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QBWUJT 13
QBWUJDT 10
QBWUJDT 01-WJ
DT 01-WJ
DT 01-WJ
DT 01-WJ
DT 01-WJ
DT 101-WJ
DT 10
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RC TISUE-Primary B-Cells;

RX MEDLINE-22380257; PubMedel12477932; DOI=10.1073/pnas.242603899;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.L., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.L., Wang J., Hsieh F.,

RA Hopkins M.J., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hullyk S.W.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Rodrigues S., Sanchez A.,

RA Hillon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Hillon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Hillon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Hillon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Hillon D.K., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Hillon D.K., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Hillon D.K., Madan A., Wong A.C., Shevchenko Y., Bouffard G.G.,

RA Hillon D.K., Madan A., Wong A.C., Shevchenko Y., Bouffard G.G.,
                                                      HSSP; P18529; 118K.
Ensembl; ENSG00000196122; Homo sapiens
InterPro; IPR007110; Ig-like.
InterPro; IPR003597; Ig_cl.
InterPro; IPR003597; Ig_cl.
InterPro; IPR003596; Ig_WHC.
InterPro; IPR003596; Ig_V.
Pfam; PF07654; Cl.set; I.
Pfam; PF07654; Cl.set; I.
SMART; SM00406; IGY; 1.
SMART; SM00406; IGY; 1.
PROSITE; PS50835; IG_LIKE; 4.
PROSITE; PS50835; IG_LIKE; 4.
PROSITE; PS508290; IG MIC; UNKNOWN 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Blakesiey R.W., Touchman J.W., Green B.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length and mouse cDNA sequences.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human).
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAR-2002 (TrEMBLrel.
01-MAR-2002 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
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Q8WU38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Makiya R., Stigbrand T.;
"Placental alkaline phosphatase has a binding site for the human immunoglobulin-G Fc portion.";
Eur. J. Biochem. 205:341-345(1992).
EMBL; BC021276; AAH21276.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Primary B-Cells;
Director MGC Project;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IGHD protein.
Name=IGHD;
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          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PubMed=1555592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (JAN-2002)
                                       Immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PROTEIN SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE
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$30532; $30532.
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       domain;
AA; 629
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       n; Repeat.
62967 MW;
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99:16899-16903 (2002)
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          FD072344033AC530 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RX MEDLINE=23188257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altachul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altachul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., WcEwan R.J., Malek J.A., Gunaratne P.H.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whitling M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
"Generation and initial analysis of more than 15,000 full-length human rand mouse coluse colus and initial analysis of more than 15,000 full-length human
            Query Match
Best Local S
Matches 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                          EMBL; BC063384; AAH63384.1; -; mRNA.
HSSP; P01820; 1A7N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Name=IGHD;
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18 HUMAN
06P418 HUMAN PRELIMINARY;
06P418;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.
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TISSUE=Primary B-Cells;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HSSP; P01820; 1A7N.
Ensembl; ENSG00000196122; Homo sapiens.
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                                       Similarity
                                                                                                                           PS50835; IG_LIKE; 4.
PS00290; IG_MHC; UNK
576 AA; 63364 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WGQGTTVTVSS 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA sequences."
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                                 100.0%; Score 59; DB 2; Length 576; 100.0%; Pred. No. 0.031;
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27,
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                                                                                                                           UNKNOWN
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Last sequence update)
Last annotation updat
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Pred. No. 0.03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99:16899-16903 (2002).
                                                                                                                           FBB97C949D720F1E CRC64;
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   QBWUX4 HUMAN POSTURE PROCESS
QBWUX4 HUMAN PAC QBWUX4 HUMAR PAC QBWUX4 TO 101-MAR-2004 (TDT 01-MAR-2004 (TDT 
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Magner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Schnerch A., Schein J.E., Jones S.J.M., Mara M.A.,
RT and mouse cDNA sequences ";
Proc. Mari Dad Coll II can analysis of more than 15,000 full-length human
RT. Tand mouse cDNA sequences ";
InterPro; IPRO03599; Ig.
InterPro; IPRO03599; Ig.
InterPro; IPRO03597; Ig.
InterPro; IPRO03597; Ig.
InterPro; IPRO03597; Ig.
InterPro; IPRO03596; Ig.
InterPro; IPRO03596; Ig.
Pfam; PF07654; C1-set; 4.
SMART; SM00409; IG; 2.
SMART; SM00409; IG; 2.
SMART; SM00406; IGv; 1.
PROSITE; PS050835; IG. LIKE; 5.
PROSITE; PS050835; IG. LIKE; 5.
PROSITE; PS050835; IG. MHC; UNKNOWN_3.
Hypothetical protein.
SEQUENCE 595 AA; 65291 MW; 0D4B5077
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RWBL, BC019235, AAH19235.2; -; m.
PIR; G34964, G34964

HSSP; P01861; 1ADQ.

BWR, Q8WIX4; 27-256.
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01-MAR-2004 (TrEMBLrel. 26,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=89235232; PubMed=2497188;
Sanz I., Casali P., Thomas J.W., Notkins A.L., Capra J.D.;
"Nucleotide sequences of eight human natural autoantibody VH
reveals apparent restricted use of VH families.";
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Mammalia; Eutheria;
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      65291 MW; 0D4B50776545714B
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Query Match

Best Local Samilarity 100.0%; Peeds No. 0.03; Length 595;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Search completed: December 4, 2005, 04:52:27

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length: 2000000000
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1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*

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3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*

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5: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*

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GenCore version (c) 1993 - 2005
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US-08-466-710C-120
US-08-466-730C-120
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US-07-853-4088-73
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Sequence 146, App
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Sequence 146, App
Sequence 150, App
Sequence 137, App
Sequence 151, App
Sequence 151, App
Sequence 107, App
Sequence 107, App
Sequence 107, App
Sequence 73, App
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ALIGNMENTS

## RESULT 1 US-08-471-780C-120 ; MOLECULE TYPE: US-08-471-780C-120 Sequence 120, Application US/08471780C Patent No. 5759808 GENERAL INFORMATION: INFORMATION FOR SEQ ID NO: APPLICATION NUMBER: FR 924023 PILING DATE: 21-AUG-1992 PRIOR APPLICATION DATA: APPLICATION NUMBER: FR 934013 APPLICATION NUMBER: FR 934013 APPLICATION NUMBER: POTON: NAME: POTOE', JORGE . R. NAME: POTOE', JORGE . R. REGISTRATION NUMBER: 33,332 REFERENCE/DOCKET NUMBER: 0495 TELECOMMUNICATION INFORMATION: ZIP: 20005-3315 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IRM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version FILING DATE: 06-JUN-1995 CLASSIFICATION: 530 PRIOR APPLICATION DATA: APPLICATION NUMBER: US 08/106,944 FILING DATE: 17-AUG-1993 CORRESPONDENCE ADDRESS: ADDRESSEE: Finnegan, Henderson, Farabow, STREET: 1300 I Street, N.W. APPLICANT: Casterman, Cecile APPLICANT: Hammers, Raymond TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains NUMBER OF SEQUENCES: 130 CURRENT APPLICATION DATA: APPLICATION NUMBER: US SEQUENCE CHARACTERISTICS: TELEPHONE: 202-108-4400 STREET: 1300 I STREET: Washington STATE: D.C TOPOLOGY: LENGTH: amino acid GY: linear 11 amino acids USA 202-408-4000 peptide FR 93401310.3 US/08/471,780C 92402326.0 04958.0008-00000 Garrett & Dunner

Query Match Best Local Similarity

100.0%;

Score 59; Pred. No.

DB 1; 0.0017;

Length 11;

Matches

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RESULT 2
US-08-467-282B-120
19-08-467-282B-120
Sequence 120, Application US/08467282B
30-401 No. 5800988
                                                           RESULT 3
US-08-471-282A-120
US-08-471-282A-120
; Sequence 120, Application US/08471282A
; Patent No. 5840853
; GENERAL INFORMATION:
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FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/106,944
FILING DATE: 17-AUG-1993
APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION UNMBER: FR 93401310.3
FILING DATE: 21-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: POCTEY, Jane B.R.
REGISTRATION NUMBER: 33,332
                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC
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APPLICANT: Hamers, Raymond
TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains
NUMBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
STREET: 1300 I Street, N.W.
NUMBER OF SEQUENCES:
                APPLICANT: Casterman, Cecile APPLICANT: Hamers, Raymond TITLE OF INVENTION: Immunogic
                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: 15
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                      Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                        Sequence 40, Application US/08318157B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 93401310.3
FILING DATE: 21-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: POUTEY, Jane E.R.
REGISTRATION NUMBER: 33,332
REFERENCE/DOCKET NUMBER: 04958.0008-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
 ZIP: 2007-5109
ZIP: 2007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: FIRM PC COMPATION SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/318,157B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARB: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,282A
PILING DATE: 06-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner STREET: 1300 I Street, N.W.
                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 536
PRIOR APPLICATION NUMBER: US 0
PRILING DATE: 17-AUG-1993
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                                                                                                                                                                        STATE: D.C
                                                                                                                                                                                                         ADDRESSEE: Foley & Lardner STREET: 3000 K Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Washington STATE: D.C.
FILING DATE:
                                                                                                                                                       COUNTRY:
                                                                                                                                                                                      CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Match 100.0%; Score 59; DB 1; Length 11; Local Similarity 100.0%; Pred. No. 0.0017;
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GY: linear
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
05-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US 08/106,944
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                                                                                                                                                                                                             Suite 500
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Gaps

ATTORNEY/AGENT INFORMATION:
NAME: SAXE, Bernhard D.
REGISTRATION UMBER: 28,665

CLASSIFICATION:

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SEQUENCE CHARACTERISTICS:
LENGTH: 11 aming
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APPLICANT: Casterman, Cecile
APPLICANT: Hamers, Raymond
TITLE OF INVENTION: Immunoglobulins Devoid of Light Chains
NUMBER OF SEQUENCES: 130
                                                                                 TELEFAX: 202-408-4400
NFORMATION FOR SEQ ID NO:
                                                                                                              NAME: POLTEY, Jane E.R.
REGISTRATION NUMBER: 33,332
REFERENCE, DOCKET NUMBER: 049
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/106,944
FILING DATE: 17-AUG-1993
APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDLUM TYPE: Floppy disk
COMPUTER: EM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,710C
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                         APPLICATION NUMBER: FR 9: FILING DATE: 21-MAY-1993 ATTORNEY/AGENT INFORMATION:
                                              SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
TYPE: amino acid
TYPE: linear
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les 11; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
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1300 I Street, N.W.
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21-MAY-1993
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                                     RESULT 7
US-08-646-265A-114
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Sequence 114, Application US/08646265A Patent No. 6214973
                                                                                                                                                                              Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 11; Conservative 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 08/106,944
FILING DATE: 17-AUG-193
APPLICATION NUMBER: FR 92402326.0
FILING DATE: 21-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 93401310.3
FILING DATE: 21-MAY-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:

APPLICANT: Casterman, Cecile
APPLICANT: Hamers, Raymond
TITLE OF INVENTION: Immunoglo
                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION: TELEPHONE: 202-408-4000
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/468,739C FILING DATE: 06-JUN-1995 CLASSIFICATION: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Washington STATE: D.C.
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                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Potter, Jane E.R REGISTRATION NUMBER: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
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1300 I Street, N.W.
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100.0%; Pred. No. 0.0017;
tive 0; Mismatches 0
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                                                                                                                                                                              Score 59; DB 2;
Pred. No. 0.0017;
Mismatches 0
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NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:

APPLICANT: TSUCHIYA, MASAYUKI TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN TITLE OF INVENTION: MEDULLOBLASTOMA CELLS

OHTOMO, Toshihiko

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RESULT 8
US-08-646-265A-129
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; MOLECULE TYPE:
US-08-646-265A-114
                                                                                                                                                                                                                                                                                        Sequence 12
Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO:
                                                                                                                                                   APPLICANT: OHTOMO, TOSHIHIKO
APPLICANT: SATO, KOH
APPLICANT: TSUCHIYA, Masayuki
TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN
TITLE OF INVENTION: MEDULLOBLASTOMA CELLS
NUMBER OF SEQUENCES: 132
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-CT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 5-291078
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/646,265A
FILING DATE: 09-E8P-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                        STREET: 3000 K St
CITY: Washington
STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (20.
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CITY: Washington
                                   COUNTRY: USA
ZIP: 20007-5109
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                                                                                                    E: Foley & Lardner
3000 K Street, N.W., Suite 500
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100.0%; Pred. No. 0.0017;
tive 0; Mismatches 0
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US-09-253-794-40
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 40, Application US/092537
Patent No. 6676924
GENERAL INFORMATION:
APPLICANT: HANSEN, Hans J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/JP94/01763
FILING DATE: 19-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEX: 904136
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
TYPE: amino acid
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                                COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/253,794

FILING DATE: 22-Feb-1999

CLASSIFICATION DATA:

APPLICATION DATA:

APPLICATION DATA:

APPLICATION DATA:

APPLICATION DATA:

APPLICATION DATA:

REGISTRATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION DATA:

APPLICATION NUMBER: US 08/318,157

FILING DATE: 05-CCT-1994

ATTORNEY/AGENT INFORMATION:

NAME: SAXE, Bernhard D.

REGISTRATION NUMBER: 28,665

PREFERENCE / COCYPET NUMBER: 1873/464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: 53-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
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OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX:
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REGISTRATION NUMBER: 25,258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ARMOUR, KATHTYN L.
TITLE OF INVENTION: CDR-GRAFTED TYPE III ANTI-CEA HUMANIZED
MOUSE MONOCLONAL ANTIBODIES
REFERENCE/DOCKET NUMBER: 18733/464
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
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COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/09253794
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(202) 672-5399

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US-09-563-222C-146
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US-09-563-222C-146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-253-794-40
                                                                                                                                                                                                                                                                                                                                                                       US-09-563-222C-169
         GENERAL INFORMATION:

APPLICANT: EPICYTE PHARMACBUTICALS, INC.

APPLICANT: HIATT, ANDREW C.

APPLICANT: HIATT, ANDREW C.

APPLICANT: HIM, MICH B.

TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS

FILE REFERENCE: 068904-0501

CURRENT APPLICATION NUMBER: US/09/563,222C

CURRENT FILING DATE: 2000-05-02

PRIOR APPLICATION NUMBER: PCT/US01/14349

PRIOR FILING DATE: 2001-05-02

PRIOR FILING DATE: 2000-05-02

PRIOR PLICATION NUMBER: 09/563,222

PRIOR FILING DATE: 2000-05-02

PRIOR PRIOR DATE: 2000-05-02
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Patent No. 6696620
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Best Local Similarity
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/563,222C CURRENT FILING DATE: 2000-05-02 PRIOR APPLICATION NUMBER: PCT/US01/14349 PRIOR FILING DATE: 2001-05-02 PRIOR APPLICATION NUMBER: 09/563,222 PRIOR APPLICATION NUMBER: 09/563,222 PRIOR FILING DATE: 2000-05-02 NUMBER OF SEQ ID NOS: 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: EPICYTE PHARMACEUTICALS, INC
APPLICANT: HIATT, ANDREW C.
APPLICANT: HEIN, MICH B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN PLANT CELLS
SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 068904-0501
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TELEX: 904136
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
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STRANDEDNESS: <Unknown>
TOPOLOGY: linear
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Pred. No. 0.0017;
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US-09-269-921-137
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-269-921-137
                                                                                                                                                                                                                                                                        US-09-293-769A-120
                                                                                                                                                                                                                                                                                               RESULT 13
                                                                                                                                                                                                              Sequence 120, Application US/09293769A Patent No. 6765087 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 137
LENGTH: 11
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GENERAL INFORMATION:
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Best Local Similarity
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APPLICANT: CASTERMAN, CECILE
APPLICANT: HAMERS, RAYMOND
TITLE OF LIGHT CHAINS
FILE REFERENCE: 04958.0008-07000
CURRENT APPLICATION NUMBER: US/09/293,769A
CURRENT FILING DATE: 1999-04-19
PRIOR APPLICATION NUMBER: 08/471,284
PRIOR FILING DATE: 1995-06-06
PRIOR PPLICATION NUMBER: 07/106,944
PRIOR APPLICATION NUMBER: 07/106,944
PRIOR APPLICATION NUMBER: 07/106,944
PRIOR APPLICATION NUMBER: BPO 92402326.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EARLIER APPLICATION NUMBER: PCT/JP97/03553
EARLIER FILING DATE: 1997-10-03
EARLIER APPLICATION NUMBER: JP 8-264756
EARLIER FILING DATE: 1996-10-04
NUMBER OF SEQ ID NOS: 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Ono, Koichiro
APPLICANT: Ohtomo, Toshihiko
APPLICANT: Tsuchiya, Masayuki
APPLICANT: Yoshimura, Yasushi
APPLICANT: Yoshimura, Yasushi
APPLICANT: Koishihara, Yasush
TITLE OF INVENTION: RESHAPED HUMAN ANTI-HM 1.24 ANTIBODY
FILE REFERENCE: 35029-20007.00
CURRENT APPLICATION NUMBER: US/09/269,921
CURRENT FILING DATE: 1999-04-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAGES: 583-591
DATE: 1981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS: Ravetch, J. et al. JOURNAL: CELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VOLUME: 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Description of Unknown Organism: JH6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Unknown FEATURE:
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Local Similarity 100.0%;
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Pred. No. 0.0017;
); Mismatches 0
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Pred. No. 0.0017;
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; PRIOR FILING DATE: 1992-08-21
; PRIOR APPLICATION NUMBER: EPO 93401310.3
; PRIOR APPLICATION NUMBER: EPO 93401310.3
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 120
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-293-769A-120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
5189147-14
5189147-14
;PACEANT NO. 5189147
; APPLICANT: SAITO, HARUO;KRANZ, DAVID M.;ELSEN, HERMAN N.;
;TONECAWA, SUSUMU
; TITLE OF INVENTION: METERODIMERIC T LYMPHOCYTE RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
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US-08-765-179B-8
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                                                                                                                                                                                                                                                                                                                                                                              Sequence 8, Application US/08765179B Patent No. 5854027 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
CURRENT APPLICATION NUMBER: US/07/27
APPLICATION NUMBER: US/07/27
PILING DATE: 14-NOV-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 666,988
FILING DATE: 31-OCT-1984
APPLICATION NUMBER: 620,122
PILING DATE: 13-JUN-1984
              COUNTRY: U.S.A.
ZIP: 20005-5701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSE: Nikaido, Marmelstein, Murray & Oram LLP
STREET: 655 Fifteenth Street N.W. Suite 330
                                                                                                                                                                                                                                                                                               APPLICANT: STEIPE, Boris
APPLICANT: STEINBACHER, Stefan
TITLE OF INVENTION: PROCESS FOR MODIFYING THE STABILITY
TITLE OF INVENTION: OF ANTIBODIES
                                                                                                                                                                           CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   / Match 100.0%; Score 59; DB 2; Length 11;
Local Similarity 100.0%; Pred. No. 0.0017;
nes 11; Conservative 0; Mismatches 0; Indels
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11;
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US/08/765,179B
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Pred. No. 0.002;
; Mismatches
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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/02626
PILING DATE: 06-ULL-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 44 25 115.7
FILING DATE: 15-ULL-1994
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
TYPE: amino acids
문
                        S
                                                                                                             US-08-765-179B-8
                                                      Matches
                                                                                 Query Match
                                                                                                                       TOPOLOGY: linear MOLECULE TYPE: protein
                                             Local Similarity 100.0%;
es 11; Conservative
                1 WGQGTTVTVSS 11
ū
WGQGTTVTVSS
15
                                                      0,
                                                                   Score 59; DB 1;
Pred. No. 0.0023;
                                                      Mismatches
                                                                              DB 1; Length 15;
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                                                      Gaps
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Search completed: December 4, 2005, 04:09:45 Job time : 24.6042 secs

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Minimum DB seq length: 0
Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score
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Gapop 10.0 , Gapext 0.5
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US11A_PUBCOMB.pep:*
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd
                                                             US-09-253-794-40
US-09-828-708-78
US-09-98-873-129
US-09-749-873-129
US-09-269-921-137
US-09-563-222-165
US-09-563-222-161
US-09-563-222-181
US-09-563-222-181
US-09-563-222-181
US-09-503-223-137
US-09-503-223-137
US-10-310-113-26
US-10-310-113-148
US-10-310-113-148
US-10-310-113-150
US-10-310-113-150
US-10-310-113-150
US-10-310-113-150
US-10-310-113-153
                                S-10-310-113-155
S-10-310-113-156
S-10-310-113-157
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a 40, Appl

114, Appl

114, Appl

129, Appl

157, Appl

165, Appl

179, Appl

179, Appl

179, Appl

140, Appl

140, Appl

141, Appl

147, Appl

148, Appl

149, Appl

150, Appl

151, Appl

152, Appl

153, Appl

153, Appl

155, Appl

155, Appl

156, Appl

157, Appl

158, Appl

158, Appl

159, Appl
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US-09-253-794-40
 Query Match 100.0%; Score 59; DB 3; Length 11; Best Local Similarity 100.0%; Pred. No. 0.01; Matches 11; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE: D.C.
COUNTRY: USA
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45	44	43	42	41	40	39	38	37	36	35	34	<b>3</b> 3	32	31	30	29	28
59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
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US-10-984-960A-45	US-10-984-960A-9	US-10-755-382-40	US-10-630-009-78	US-10-923-068-413	US-10-751-826-120	US-10-160-505-40	US-10-783-950-169	US-10-783-950-146	US-10-632-706-204	US-10-632-706-201	US-10-632-706-198	US-10-632-706-195	US-10-688-015-40	US-10-449-379-40	US-10-443-466A-120	US-10-443-466A-69	US-10-412-703A-135
Sequence 45, Appl	Sequence 9, Appli	Sequence 40, Appl	•	Sequence 413, App	_		Sequence 169, App			Sequence 201, App				•	Sequence 120, App		_

ALIGNMENTS

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;
    TOPOLOGY: linear
;
    MOLECULE TYPE: protein
    SEQUENCE DESCRIPTION: SEQ ID NO: 40:
US-09-253-794-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 40, Application US/09253794
Patent No. US20020018750A1
GENERAL INFORMATION:
                                                                                                                                                                                       INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/09/253,794
FILING DATE: 22-Feb-199
CLASSIFICATION: <URNown:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/318,157
FILING DATE: 05-CCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: SAXE, Bernhard D.
REGISTRATION NUMBER: 28,665
REGISTRATION NUMBER: 18733/464
TELECHONUNICATION INFORMATION:
TELEPHONE: (202)672-5399
TELEPHONE: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ARMOUR, KATHIYN L.

TITLE OF INVENTION: CDR-GRAFTED TYPE III ANTI-CEA HUMANIZED
MOUSE MONOCLONAL ANTIBODIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: HANSEN, Hans J. ARMOUR, Kathryn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 58
                                                                                                                                     LENGTH: 11 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 20007-5109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Washington
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US-09-828-708-78
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US-09-749-873-114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Burton, D.
APPLICANT: Schaller, M.
APPLICANT: Schaller, M.
TITLE OF INVENTION: Autcoantibodies to glucose-6-phosphate isomerase and their partici
TITLE OF INVENTION: autcimmune disease
FILE REFERENCE: 1361.005US1
CURRENT APPLICATION NUMBER: US/09/828,708
CURRENT APPLICATION NUMBER: US/09/828,708
CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 100.
Matches 11; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 114, Application US/09749873
Publication No. US20030023045A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 78, Application US/09828708
Patent No. US20020146753A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Ditzel, H. APPLICANT: Burton, D APPLICANT: Schaller,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 11
                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/749,873
FILING DATE: 29-Dec-2000
CLASSIFICATION: <URknown>
PRIOR APPLICATION DATA:

PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W.,
TELECOMMUNICATION INFORMATION:
                                                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN MEDULLOBLASTOMA CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: OHTOMO, SATO, K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 WGQGTTVTVSS 11
                                                                                              APPLICATION NUMBER: 08/646,265
FILING DATE: 1996.09-09
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 20007-5109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WGQGTTVTVSS 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WGQGTTVTVSS
                 NAME: WEGNER, Harold C.
REGISTRATION NUMBER: 25,258
REFERENCE/DOCKET NUMBER: 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TSUCHIYA, Masayuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 59; DB 3;
100.0%; Pred. No. 0.01;
tive 0; Mismatches 0
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                 53466/184
                                                                                                                                                                                                                                                                                       Version #1.30
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IENGTH: 11 anino acids
TYPE: amino acid
TYPE: prince
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 129:
US-09-749-873-129
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; SEQUENCE DESCRIPTION: SEQ ID NO: 114:
US-09-749-873-114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 4
US-09-749-873-129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 129, Application US/09749873 Publication No. US20030023045A1 GENERAL INFORMATION:
Query Match 100.0%; Score 59; DB 3; Best Local Similarity 100.0%; Pred. No. 0.01; Matches 11; Conservative 0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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                                                                                                                                                                                            TELEX: 904136
INFORMATION FOR SEQ ID NO: 129:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEX: 904136
INFORMATION FOR SEQ ID NO: 114:
                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: 08/646,265
FILING DATE: 1996-09-09
APPLICATION NUMBER: JP 5-291078
FILING DATE: 19-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: WEGURER, Harold C.
REGISTRATION NUMBER: 25,258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIF: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/09/749,873
FILING DATE: 29-Dec-2000
CLASSIFEICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TSUCHIYA, Masayuki
TITLE OF INVENTION: RESHAPED HUMAN ANTIBODY TO HUMAN
MEDULLOBLASTOMA CELLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: OHTOMO, Toshihiko
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ch 100.0%;
l Similarity 100.0%;
ll; Conservative 0
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
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                                                                                                                                                                                                                                                      TELEFAX: (202)672-5399
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                                    Length 11;
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APPLICANT: Onc, Koichiro

APPLICANT: Ohtomo, Toshihiko

APPLICANT: Yeshimura, Masayuki

APPLICANT: Yoshimura, Yasushi

APPLICANT: Koishihara, Yasushi

APPLICANT: Koishihara, Yasushi

ITITLE OF INVENTION: RESHAPED HUMAN ANTI-HM 1.24 ANTIBODY

FILE REFERENCE: 35029-20007.00

CURRENT APPLICATION NUMBER: US/09/269,921

CURRENT FILING DATE: 1999-04-01

EARLIER APPLICATION NUMBER: PCT/JP97/03553

EARLIER APPLICATION NUMBER: D8-264756

EARLIER APPLICATION NUMBER: JP 8-264756

EARLIER FILING DATE: 1996-10-04

NUMBER OF SEQ ID NOS: 137

SOFTMARE: Patentin Ver. 2.0

SEQ ID NO 137

LENGTH: 11
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US-09-563-222-157
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                                                                                            ; ORGANISM: Mus musculus US-09-563-222-157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Description of PUBLICATION INFORMATION: AUTHORS: Ravetch, J. et al. JOURNAL: CELL VOLUME: 27 PAGES: 583-591
DATE: 1881
                                                                                                                                          SOFTWARE: Fa
SEQ ID NO 157
LENGTH: 11
TYPE: PRT
                                                                                                                                                                                                     Sequence 157, Application US/09563222

Publication No. US20030079253A1

GENERAL INFORMATION:
APPLICANT: Hiatt, Andrew
APPLICANT: Hein, Mich B.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN
TITLE OF INVENTION: EUKARYOTIC CELLS
FILE REFERENCE: 310098.406
CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 197
SOFTWARE: FastSEQ for Windows Version 4.0
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Best Local S
Query Match 100.0%; Score 59; DB 3; Length 11; Best Local Similarity 100.0%; Pred. No. 0.01; Matches 11; Conservative 0; Mismatches 0; Indels
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ORGANISM: Unknown
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APPLICANT: Hiatt, Andrew
APPLICANT: Hein, Mich B.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING I
TITLE OF INVENTION: EUKARYOTIC CELLS
FILE REFERENCE: 310098.406
CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02
CURRENT FILING DATE: 200
                                                                                                                                                                                                                                                                                                                                                                                                  FILE REFERENCE: 310098.406
CURRENT APPLICATION NUMBER: US/09/563,222
CURRENT FILING DATE: 2000-05-02
NUMBER OF SEQ ID NOS: 197
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 181
LENGTH: 11
TYPE: PRT
ORGANISM: Mus musculus
    US-09-563-222-197
Sequence 197, Application US/09563222
Publication No. US20030079253A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Hist, Aich B.
APPLICANT: Hein, Mich B.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN
TITLE OF INVENTION: BUKARYOTIC CELLS
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Sequence 181, Application US/09563222
Publication No. US20030079253A1
GENERAL INFORMATION:
APPLICANT: Hist, Andrew
APPLICANT: Hein, Mich B.
TITLE OF INVENTION: IMMUNOGLOBULIN BINDING PROTEIN ARRAYS IN
TITLE OF INVENTION: EUKARYOTIC CELLS
TITLE OF INVENTION: EUKARYOTIC CELLS
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Sequence 165, Application US/09563222
Publication No. US20030079253A1
GENERAL INFORMATION:
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Matches
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SOFTWARE: FASTSEQ for
SEQ ID NO 165
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Best Local (
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TYPE: PRT
ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                          Local Similarity
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nes 11; Conserv
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310098.406
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100.0%; Pred. No. 0.01;
ative 0; Mismatches 0
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CURRENT APPLICATION NUMBER: US/09/563,222; CURRENT FILING DATE: 2000-05-02; NUMBER OF SEQ ID NOS: 197; SOPTWARE: FastSEQ for Windows Version 4.0; SEQ ID NO 197; LENGTH: 11; TYPE: PRT; ORGANISM: Mus musculus
US-09-563-222-197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 179, Application US/0950908
Publication No. US20030103970A1
GENERAL INFORMATION:
APPLICANY: TSUCHIYA, MASAYUKI
TITLE OF INVENTION: NATURAL HUMANIZED ANTIBODY
FILE REFERENCE: 053466/0274
CURRENT APPLICATION NUMBER: US/09/509,098
CURRENT FILING DATE: 2000-03-22
PRIOR APPLICATION NUMBER: PCT/JP98/04469
PRIOR FILING DATE: 1998-10-02
PRIOR APPLICATION NUMBER: JP 9-271726
PRIOR APPLICATION NUMBER: JP 9-271726
PRIOR APPLICATION NUMBER: JP 9-271726
PRIOR FILING DATE: 1997-10-03
NUMBER OF SEQ ID NOS: 203
SOPTWARE: PATENTIN Ver. 2.1
SEQ ID NO 179
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US-09-509-098-179
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Best Local Similarity 100.0%;
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                                                                                                                       APPLICANT: Tsuchiya, Masayuki
APPLICANT: Yoshimura, Yasushi
APPLICANT: Koishihara, Yasushi
TITLE OF INVENTION: RESHAPED HUMAN ANTI-HM 1.24 ANTIBODY
FILE REFERENCE: 35029-20007.00
CURRENT APPLICATION NUMBER: US/10/218,253
CURRENT FILING DATE: 2002-11-21
CURRENT FILING DATE: 2002-11-21
                                                                                                                                                                                                           APPLICANT: Ono, Koichiro
APPLICANT: Ohtomo, Toshihiko
APPLICANT: Tsuchiya, Masayuk:
APPLICANT: Yoshimura, Yasush
APPLICANT: Koishihara, Yasuo
                 PRIOR APPLICATION NUMBER: US/09/269,921
PRIOR FILING DATE: 1999-04-01
PRIOR APPLICATION NUMBER: PCT/JP97/03553
PRIOR FILING DATE: 1997-10-03
PRIOR APPLICATION NUMBER: JP 8-264756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 11
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FILING DATE:
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o. US20030129185A1
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1996-10-04
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Pred. No. 0.01;
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RESULT 13
US-10-160-506-40
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US-10-169-351-4
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; DATE: 1981
US-10-218-253-137
                                                                                                                                                                                                                                                                                                                                                                              US-10-169-351-4
                                                                                        Sequence 40, Application US/10160506 Publication No. US20030161832A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 4, Application US/10169351 Publication No. US20030157090A1 GENERAL INFORMATION:
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Best Local Similarity
Matches 11; Conserv
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SOPTWARE: PATENTIN VET. 2.1
SEQ ID NO 4
LENGTH: 11
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SOFTWARE: PatentIn Ver. 2.
SEQ ID NO 137
LENGTH: 11
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                                                                                                                                                                                                                                                                                                                                     Query Match
       APPLICANT: Bander, Neil H.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING OR PREVENTING TITLE OF INVENTION: SKIN DISORDERS USING BINDING AGENTS SPECIFIC FOR TITLE OF INVENTION: PROSTATE SPECIFIC MEMBRANE ANTIGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/10/169,351
CURRENT FILING DATE: 2002-10-29
PRIOR APPLICATION NUMBER: PCT/IT00/00554
PRIOR FILING DATE: 2000-12-29
PRIOR APPLICATION NUMBER: IT RM99A000803
PRIOR FILING DATE: 1999-12-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: FRANCONI, ROSELLA
APPLICANT: DESIDERIO, ANGIOLA
APPLICANT: TAVLADORAKI, PARASKEVI
TITLE OF INVENTION: STABILIZING PEPTIDES,
TITLE OF INVENTION: WHICH INCLUDE THEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: BENVENUTO, EUGENIO
APPLICANT: FRANCONI, ROSELLA
APPLICANT: DESIDERIO, ANGIOLL
APPLICANT: TAVLADORAKI, PARA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PUBLICATION INFORMATION:
AUTHORS: Ravetch, J. et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: 4161-4
FILE REFERENCE: 10448-162001
                                                                                                                                                                                                                                                                                                                                                                                       FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic OTHER INFORMATION: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
OTHER INFORMATION: Description
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
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                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                           1 WGQGTTVTVSS 11
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                                                                                                                                                                                                                                                                                                     Conservative
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Pred. No. 0.01;
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CURRENT APPLICATION NUMBER: US/10/160,506
CURRENT FILING DATE: 2002-05-30
PRIOR APPLICATION NUMBER: 60/324,100
PRIOR FILING DATE: 2001-09-20

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                                                                                                    RESULT 15
US-10-310-113-147
; Sequence 147, Application US/10310113
; Publication No. US20030176664A1
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; Sequence 26, Application US/10310113
; Publication No. US20030176664A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/10/310,113
CURRENT FILING DATE: 2002-12-04
PRIOR APPLICATION NUMBER: 09/990,586
PRIOR FILLING DATE: 2001-11-21
PRIOR APPLICATION NUMBER: 60/343,306
PRIOR FILLING DATE: 2001-10-29
PRIOR PELICATION NUMBER: 09/293,854
PRIOR FILLING DATE: 1999-04-16
PRIOR APPLICATION NUMBER: 08/814,806
PRIOR APPLICATION NUMBER: 08/814,806
PRIOR APPLICATION NUMBER: 08/814,806
PRIOR FILLING DATE: 1997-03-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 40
LENGTH: 11
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SEQ ID NO 26
LENGTH: 11
TYPE: PRT
                                                                                         GENERAL INFORMATION:
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Best Local Similarity
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Best Local Similarity
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APPLICANT: WONG, HING C.
APPLICANT: NIEVES, ESPERANZA LILIANA
APPLICANT: MOSQUERA, LUIS A.
TITLE OF INVENTION: USE OF ANTI-TISSUE FACTOR ANTIBODIES FOR TREATING
TITLE OF INVENTION: THROMBOSES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 128
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APPLICANT: JIAO, JIN-AN
APPLICANT: WONG, HING C.
APPLICANT: MOSUES, ESPERANZA LILIANA
APPLICANT: MOSQUERA, LUIS A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 58122(71758)
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FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: humanized HC-01 FR4 amino acid sequence
US-10-310-113-147
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Search completed: December Job time : 79.8333 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE REFERENCE: 58122(71758)

CURRENT APPLICATION NUMBER: US/10/310,113

CURRENT FILING DATE: 2002-12-04

PRIOR APPLICATION NUMBER: 09/990,586

PRIOR FILING DATE: 2001-11-21

PRIOR PELLONION NUMBER: 60/343,306

PRIOR FILING DATE: 2001-10-29

PRIOR PELLONION NUMBER: 09/293,854

PRIOR APPLICATION NUMBER: 09/293,854

PRIOR APPLICATION NUMBER: 09/293,854

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 169

ONUMBER OF SEQ ID NOS: 169
                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 11; Conserv
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SEQ ID NO 147
LENGTH: 11
TYPE: PRT
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                                                                                                                                                                                   11; Conservative
                                                                                                                                   1 WGQGTTVTVSS 11
                                                                                        WGQGTTVTVSS 11
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